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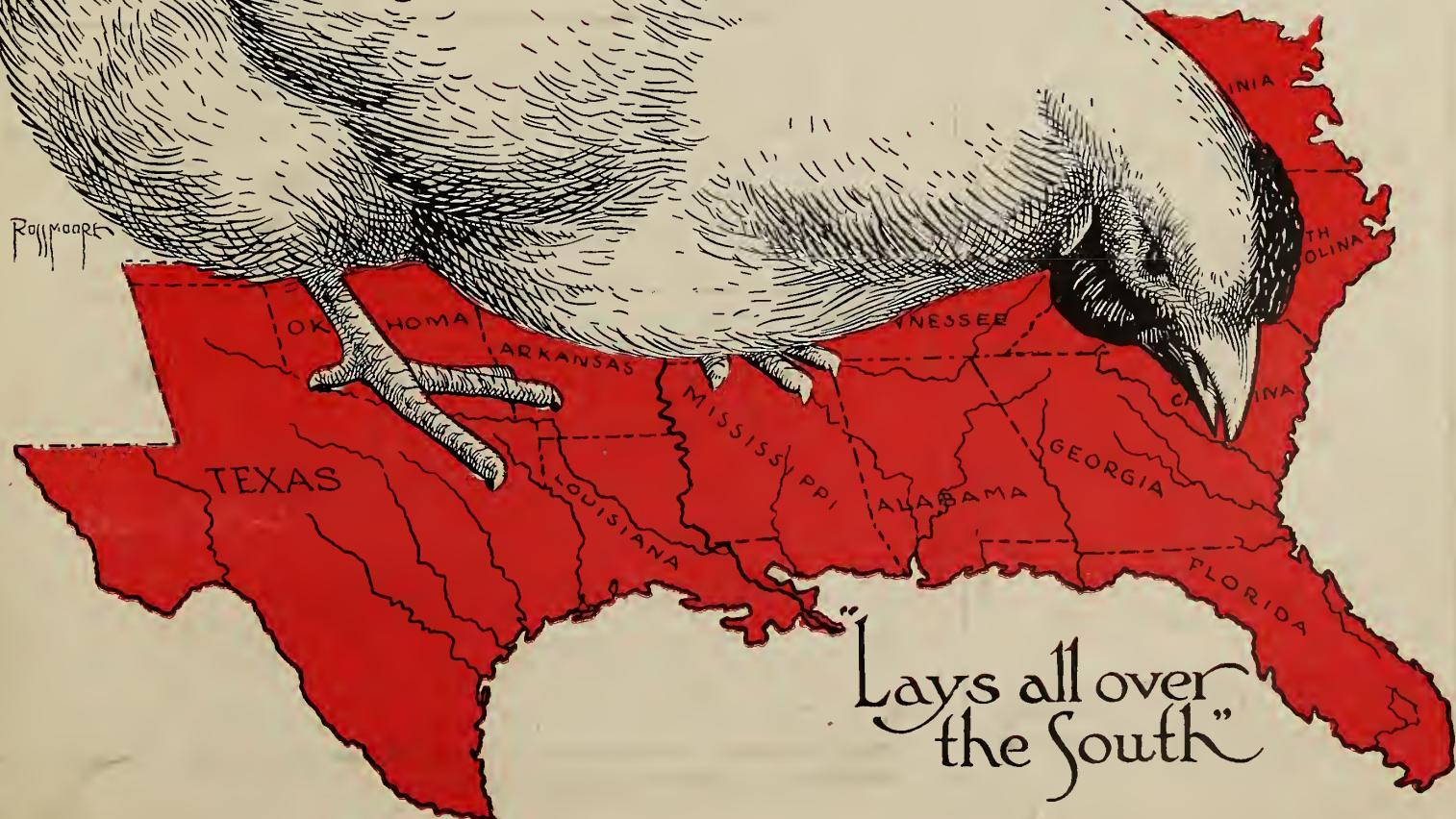
# The **INDUSTRIOUS HEN**

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January, 1917

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Secretary of Agriculture



## THE Industrious Hen

Absorbing Poultry Ideas, Louisville, Ky.; Practical Poultry, Birmingham, Ala.; The Poultry Times, Norfolk, Va.; Southern Poultry Magazine, Nashville, Tenn.; The Poultry News, Bustleton, Pa.; Tennessee Poultry Journal, Lebanon, Tenn.; The National Poultry Breeder, Owensboro, Ky.; Everybody's Poultry Journal, Nashville, Tenn.; The Leghorn Journal, Appomattox, Va.

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American Poultry Association

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**Publishers' Announcement**—All manuscript and copy for change of advertisements should be in our hands promptly by the 10th of the month preceding date of issue. THIS IS IMPORTANT. New business can be accepted as late as the 25th of the month, but special position cannot be guaranteed.

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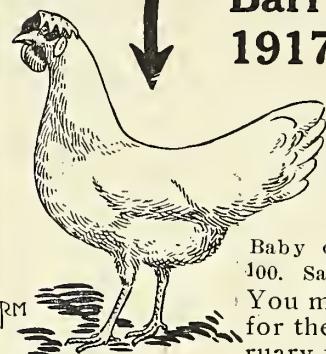
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Large heavy comb, large bodied and splendid type. The greatest Egg producing strain ever placed before the public.



Baby chicks \$15 per 100. Hatching Eggs \$10 per 100. Safe delivery of chicks and 90% fertility of eggs guaranteed. You must be satisfied or we will refund your money. Orders for the above are now being booked for delivery after February first.

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Agents for leading makes and brands of Incubators, Brooders, Poultry Supplies, Remedies, etc. Mail orders given prompt attention.

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EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years WILSON BROS., Dept. 16 Easton, Pa.

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Winners at Georgia State Fair 1916. No stock for sale. A limited number of eggs after January 1st, 1917.

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Prize winners and utility stock and eggs for sale

HIGHLAND POULTRY FARM

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### S. C. White and Brown Leghorns, S. C. Rhode Island Reds and Black Minorcas

I am offering some great bargains in both old and young stock in the above varieties. Get my prices before placing orders elsewhere for show or breeding birds. Address

J. R. SKAGGS,

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## S. C. White Leghorns—S. C. Rhode Island Reds

Winners at Owensboro, Bowling Green and Memphis Last Season

Our breeding pens are now mated, and we can ship you eggs at \$2, \$3 and \$5 per 15. We guarantee satisfaction or refund your money. Also some nice breeders to dispose of at reasonable prices.

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LIVERMORE. BOX NO. 135A KENTUCKY

## S. C. WHITE LEGHORNS COLUMBIAN WYANDOTTES

If you want the real thing, get your birds and eggs from us. We have been breeding them for nearly ten years and have a large number of large, vigorous free-range grown birds just in their bloom now. These birds are not only bred to conform as nearly as possible to the standard requirements, but also to lay the largest number of eggs possible. They lay in winter when eggs are high. Our prices on these profitable fowls are very reasonable and we ask that you write us for prices on anything you may need before you buy. A large number of the finest cocks and cockerels we have ever raised and the price is right. Write us today.

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**Dark Mottled S. C. Anconas, imported blood,** strictly high class and blue ribbon winners. Eggs and stock for sale. Address T. F. Holder, Rutledge, Tenn. 1-2t

**S. C. Mottled Anconas with a trapnest record.** Eggs \$2.00, \$3.00 and \$5.00 for 15. Booking orders now for eggs and baby chicks. No stock. Barrett's Ancona Farm, Morristown, Tenn. 12-6t

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**Fine Blue Andalusians and Silver Campines.** Highest egg record and first prizes at largest shows. Eggs \$2.00 per 15. Stock for sale. H. R. Birchett, Lebanon, Tenn. 1-10t

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**Light Brahma cockerels \$1.00 and \$1.50.** Minnie Patterson, China Grove, N. C. 11-3t

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**Sieilian Buttercups—the egg machines.** Stock for sale. Tom Phelp, Sonora, Ky. 1-1t

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**Silver Campines.** Eggs from three choice pens at \$3 per setting of 15. F. G. Stickney, Tuscaloosa, Ala. 1-1t

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**Fine roosters—Silver Campines, Leghorns, Houdans, Games, Wyandottes, Reds and others.** Price low. Big illustrated circular free. See it. Jno. E. Heatwole, Harrisonburg, Va. 1-5t

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**Cornish Game cockerels for sale.** Prices on application. C. D. Puckett, Route No. 10, Charlotte, N. C. 1-1t

**White and Dark Cornish, the business fowl.** Circular free. Farmers' prices, single rates in shipment. New blood. C. D. Smith, Fort Plain, N. Y. 12-3t

**Dark Cornish—Heavy-weight, prize winning Cornish.** Stock and eggs now ready. Frank R. Willis, 737 E. Burnett, Louisville, Ky. Member American Cornish Club. 12-1t

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**Ducks, Colored Muscovy.** Choice breeding stock, bred in the Bluegrass. Harry Daly, Maysville, Ky. 1-3t

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**Black Langshans—Vitality, Individual strain.** Unsurpassed winnings. Show trained birds for sale. J. R. Brown, Bramwell, W. Va. 12-6t

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**Black Leghorns, Single Comb cockerels, selected.** For sale, \$1.50 to \$2.00. Free range. F. M. Dilly, Princess Anne, Md. 1-1t

**Hatching eggs from purebred, vigorous, heavy laying S. C. White Leghorns.** Prize winners; \$1.50 per 15. Mrs. H. J. Daniel, South Boston, Va. 1-4t

**Five S. C. White Leghorn cockerels for sale.** Something extra. Sire cost \$54.00. Saved these for improvement of own stock but have decided to cut the size of my flock one-half. Price \$2.00 each. Order quick from this advertisement. Dr. D. B. Anderson, Paris, Ky. 1-4t

**Single Comb Brown Leghorns.** Again they prove supreme at Owensboro, Richmond State Show, this November. Won 1-2-3 pen, special best hen in show. As egg producers they have no superior. Stock for sale. Both matings. Mrs. Joe Mulligan, St. Joseph's, Ky., Maplewood Farm. 1-2t

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**Eggs! Eggs! Single Comb White Leghorn eggs.** One setting or a thousand. Lawson's Egg Machine Strain. They lay when eggs are high. One hundred fine egg type male birds for sale. Get new blood from the money makers. A. J. Lawson, Cleveland, Tenn. 1-1t

**S. C. White Leghorns, 25 years exclusively.** Pullets, hens, cockerels, finest quality. Baby chicks. Hatching eggs any number, my great specialties. Henry Trafford, Binghamton, N. Y., editor Poultry Success, visited me, bought big bunch birds. Will tell you this is the place to buy high grade, heavy laying stock. Circulars. Full information. C. N. Reynolds, Canton, Penn. 12-3t

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**S. C. White Orpington eggs, \$3.50 per 15.** Won best display last two years at the Augusta show, over 100 birds in the class both years. L. C. Gercke, 22 Jackson street, Augusta, Ga. 1-3t

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**Buff and White Orpingtons. Big winners** and great layers. A few large handsome early Buff cockerels and pullets, also hens and cock birds. White hens and cock birds only. No young stock for sale. Dr. C. L. Gray, Lebanon, Tenn. 11-1t

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**Pure and bred-to-lay Barred Rocks.** Pens headed by Thompson's Imperial Ringlet cockerels. Eggs \$1.50 for 15. Mrs. H. J. Daniel, South Boston, Va. 1-4t

**Barred Rocks (Palmer Strain).** Choice breeding cockerels \$1.00, \$2.00, \$3.00 each. Satisfaction guaranteed. W. H. Hassebroek, St. Peter, Ill. 1-1t

**White Plymouth Rocks, the best in this variety.** Winners six world's fairs, ten State fairs. Price list free. U. R. Fishel, Box Q, Hope, Ind. 12-5t

**For Sale—Best strains Barred, Buff, Partridge and White Plymouth Rock stock, eggs and baby chicks.** Prices reasonable. Mrs. Allen M. Dorris, Hendersonville, Tenn. 12-12t

**Goodlett's "Royal Golden" Buff Plymouth Rocks.** The Golden Buffs. Choice exhibition and breeding males and females at reasonable prices. T. J. Goodlett, Greenville, S. C. 11-1t

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**S. C. Rhode Island Red eggs for sale.** From a well bred strain. Get my prices before you buy elsewhere. E. F. Hixson, Hixson, Tenn., Box No. 1. 1-3t

**S. C. Rhode Island Reds.** Blue ribbon winners at the best shows. Dark red and prolific layers. Prices reasonable, and you must be satisfied. Get my mating list before you buy—it's free. H. C. Leach, Atwood, Tenn. 1-2t

**Single Comb Reds, 50 prize winning cockerels for sale, prices right to make room.** You need a Farrar bird to win. Ask my competitors at Memphis and Chattanooga. Eggs three dollars per setting. W. H. Farrar, Chattanooga, Tenn. 12-1t

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**Attention! Look! Rose Comb Red cockerels, pullets.** Bill Taft and Bean Sensation strains direct, America's two greatest blood lines, each in their purity. Grand lot of exhibition and breeding stock. Dark, rich color, great type, etc. Prices reasonable. Sold on approval. Satisfaction guaranteed. Harry M. Myers, Defiance, Ohio, Route 6. 11-4t

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**Speckled Sussex, the fowl with three colors;** most beautiful and excellent layers and table fowls. In the great North American Egg Laying Contest, this variety is tying for third place. Stock and eggs for sale. Aug. D. Arnold, Box H, Dillsburg, Pa. 1-1t

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**Purebred Silver Laced Wyandotte Eggs** that will hatch Wyandottes. Photographs on request. No stock for sale. Eggs \$1.50 for 15. Satisfaction guaranteed. A. H. Harrell, Hickory, Ky., R. No. 2. 3-5t

**Silver Laced Wyandottes.** Exclusive stock at all times. Eggs and baby chicks in season. Mrs. Sarah Paul, Lomax, Ill. 1-3t

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Hundreds of our subscribers and readers who have never advertised their stock or eggs should start this year and carry a small classified advertisement in the INDUSTRIOUS HEN for the coming season. The cost is only a few cents a month, and you will find they will bring your back dollars in return. Do not depend on selling your surplus cockerels and eggs around the neighborhood at low prices, when we can help you sell them at prices that will bring you in a nice bunch of money and establish you a business which will grow from year to year.

Send us your copy to start in next issue and continue through the season. Our readers would purchase your stock and eggs now if they only knew of you. A small classified advertisement in the HEN will introduce you to thousands of live buyers, for only a few cents cost to you. Take advantage of this offer.

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THE INDUSTRIOUS HEN,  
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**Fifty high quality Silver Wyandotte cockerels for sale.** Prices right. Satisfaction guaranteed. L. D. Smith, Shipman, Ill. 1-1t

**Silver Laced Wyandottes.** I have a few utility cockerels for sale. Eggs in season, \$1.25 per 15; \$1.50 by parcel post. From farm raised utility flock. C. E. Courier, Allendale, Ill. R. F. D. No. 1. 1-4t

**Attention, Please! My "Dustin" Birds** have won again. Owensboro, Ky., Nov. 20-25, 1916, out of ten entries won first pen, first hen, first pullet, first cock, first cockerel. Champion cock and pen; pullet. A few choice cockerels and two fine cocks at reasonable prices. Mrs. Tom Hayden, Locust Grove Poultry Yards, Owensboro, Ky., Route No. 6. 1-1t

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**Carneaux Pigeons—Mated pairs and** youngsters. McCreight Lofts, Lawton street, Atlanta, Ga. 12-3t

**Pigeons—Carneaux and Homers.**—The kind to start with if you want to raise large white meated squabs. They are always in demand. Squab raising easy, profits large. Guaranteed mated pairs and young birds. Write for prices and information. Albert Nisbet & Co., 2808 W. Main street, Louisville, Ky. 12-1t

I offer guaranteed mated Homers in any quantity at \$1.00 per pair. Beautiful White Homers \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runt, Carneaux, Maltese Hens and save dollars. Squab Manual 25 cents. Chas. O. Gilbert, 222 Callowhill street, Philadelphia, Pa. 1-1t

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**For Sale—Mammoth Bronze Turkeys.** Shofner strain; good size, bone and plumage. Prices right. Mrs. J. W. Daves, Mulberry, Tenn. 1-1t

**Turkeys—All varieties, farm reared,** large healthy vigorous birds. Winners wherever shown. Buy your breeding toms now. U. R. Fishel, Box Q, Hope, Ind. 12-5t

**Mammoth Bronze turkeys for sale from** prize winning tom and hens. Foundation stock C. C. Shoemaker. Write for prices. Address Mrs. George Chearnault, Glendale, Ky. 1-1t

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**Poultrymen's Printing Prepaid—Note** heads, envelopes, cards, tags, labels, 100 either, 55c; 250, 95c; 500, \$1.35; 1,000, \$2.25. Postcards, catalogues, circulars, linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Iowa. 12-6t

**Frost-proof Cabbage Plants.** Early Jersey, Charleston Wakefield, Succession, and Flat Dutch. By express, 500, \$1.00; 1,000, \$1.50; 5,000 @ \$1.25. Satisfaction guaranteed. Postpaid 30 cents per 100. D. F. Jamison, Summerville, S. C. 1-1t

**Refugees from the War Zone.** Talking parrots, singing canaries, gold fish, guinea pigs and other pets. List free. U. S. Bird Store, Burlington, Iowa. 1-1t

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**Three Bales per acre produced by** Manley's cotton under boll weevil conditions. Write for facts. Special prices on seeds. E. S. Manley, Carnesville, Ga. 1-1t

**Gape remedy that positively cures** gapes, or money back, 25 cents. Agents wanted. Booklet and proposition free. W. Doran, Brandenburg, Ky. 1-6t

**Editors published 100,000 words of my** fiction last year. Write stories. My formula tells how. Pamphlet giving details and outlining further instructions sent for 10 cents. H. F. Dryden, Berkeley, Cal. 1-1t

If you do not advertise, no one will ever know of your winnings or the good birds you have to sell.

**S. C. Rhode Island Reds and Indian** Runner Ducks—Exhibition and utility qualities. Both Reds and Ducks were under the ribbons at the Kentucky State Fair. Eggs in season. Address:

W. A. RAMSEY  
Buechel, Kentucky. R. F. D. No 11.

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The best breeds. Bred for business.

CHARLES HOLDER, Bridgeport, Ala

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Wire Netting  
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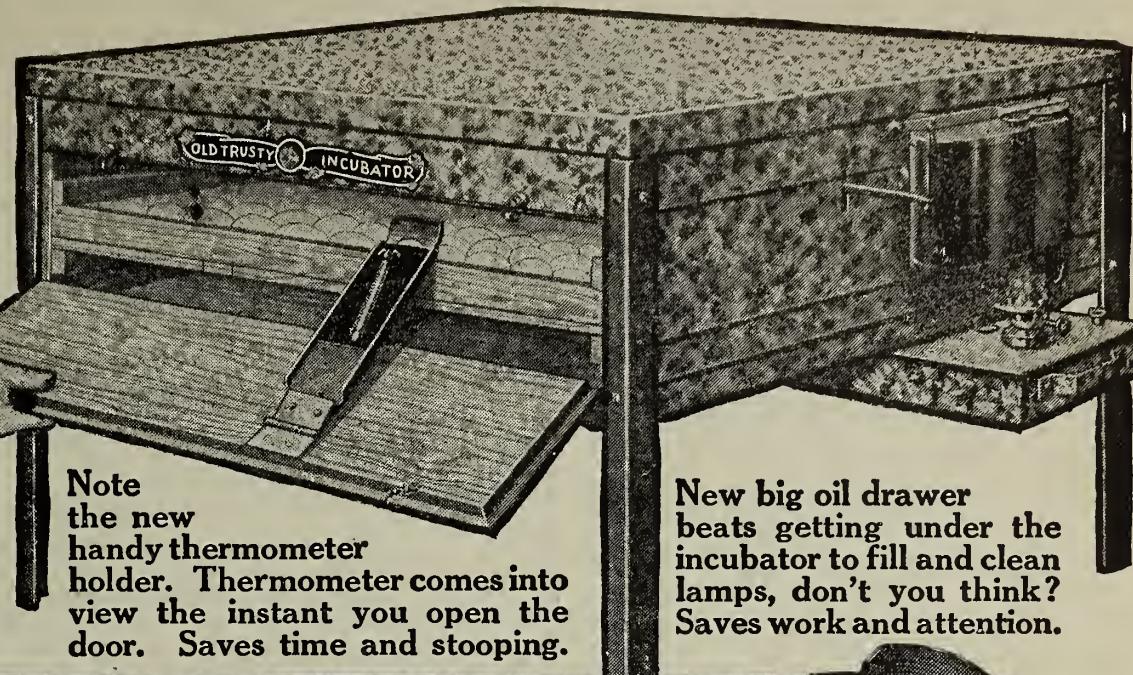
## Vermillion's S. C. Rhode Island Reds

Are sustaining their reputation of Championship Winners in the big shows. At Memphis, Tenn., 1916, we won: 1st, 5th cock; 1st, 2d, 5th cockerel; 1st, 2d hen; 1st, 3d pullet; Grand Champion cockerel of entire show; handsome silver cup for best display of REDS and a number of other specials. At Texas State Fair, Dallas, 1916, which was State A. P. A. and State Red Show, we won the big end of all singles, pens and specials. Our customers are winning all over the country on birds they hatched and raised from our eggs. Our pens are now mated for the 1917 season. WRITE FOR CIRCULAR.

MRS. J. F. VERMILLION,  
RUSK, TEXAS



H. H. Johnson  
"The Incubator Man"



Note  
the new  
handy thermometer  
holder. Thermometer comes into  
view the instant you open the  
door. Saves time and stooping.

New big oil drawer  
beats getting under the  
incubator to fill and clean  
lamps, don't you think?  
Saves work and attention.

## New Features in Old Trusty



M. M. Johnson  
Inventor of Old Trusty

## Make Big Hatches Easier Than Ever

TO make Old Trusty a better hatcher would be out of the question. We couldn't improve the case, nor the time-tested heating system. Bigger hatches would be impossible, for Old Trusty leads the procession for biggest average hatches year after year, even in coldest weather.

These new features we added simply as conveniences. I call them work savers. For instance, the big oil drawer holds five to six quarts of oil. Saves filling at night and morning—calls for less watching. The thermometer, as you can see above, is fastened right onto the inside of the door. It comes out to meet you every time you open the door. Saves groping around for it in over the eggs.

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About 700,000 satisfied owners now boast for Old Trusty. Not a single one has ever found anything lacking in Old Trusty. They have made big average hatches year after year even in coldest weather. Ten years of big profit hatches for Francis A. Kressler of Walnutport, Pa., at about 20 cents each, is just one of thousands of Old Trusty's records that come to our attention. Of course owners are most always boosters, but the fact is Old Trusty has hundreds of thousands more owners than any other incubator. Why? Because Old Trusty was invented by a practical engineer and poultry raiser, is built by people who put their entire time and attention to it and who depend upon it for their success. Old Trusty could not be built better no matter what price you would pay for it. Better materials are not made and no one could think of a better construction. Yet you get Old Trusty at a low price. The reason is, it's built in the world's largest incubator factory with the latest cost-saving machines and equipment. We keep the quality up and the price down.

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Quick shipment from factory at Clay Center, Nebr., or warehouses at St. Joseph, Mo. and Seattle, Wash.

WRITE—get our new book—learn more about these new conveniences on Old Trusty. Get the Johnson annual catalog of "What's What in Poultry." Use the coupon or write a letter. Write today.

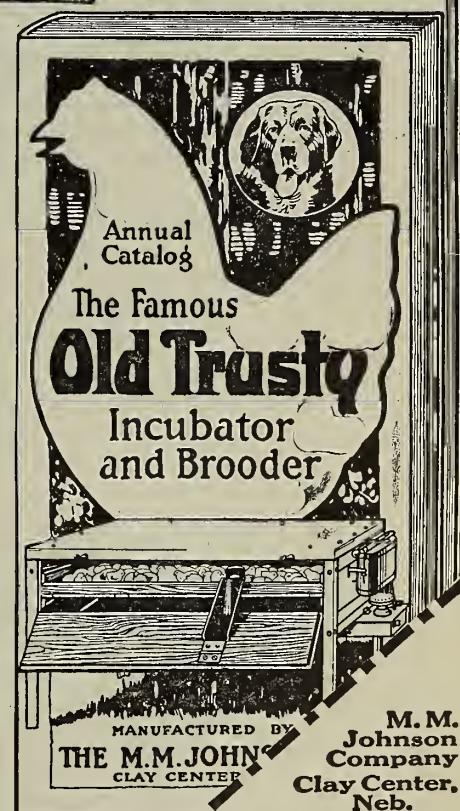
Tell me your poultry troubles. H. H. Johnson  
M. M. Johnson Company, Clay Center, Neb.

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Don't wait until the last minute and think you will be able to get February, March and April chicks. We are always booked to our full capacity for the early months, and have booked at this time more orders than any previous year. Bear in mind, we have only one breed,

## Single Comb White Leghorns

and they are hearty vigorous, heavy winter layers of large white eggs. Every bird that enters our breeding houses is a fully matured, selected breeder of quality. We offer you strong, vigorous baby chicks; the kind that live and mature into large, healthy pullets at the following prices:

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| 25 Chicks-----             | \$ 3.75 |
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| 50 Chicks-----             | 7.00    |
| 500 Chicks per 100-----    | 11.00   |
| 1,000 Chicks, per 100----- | 10.00   |

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## GAULT EGG FARM,

CHAMPAIGN, Station 7 ILLINOIS

### FOR THE SOUTHERN FARMER

The South offers the farmer, stock raiser, dairyman, fruit and truck grower every opportunity for the best paying farms and orchards to be found in the United States. The climatic advantages, the soils responsive to proper handling, the wide variety of profitable crops and the excellent markets at the farmers command favor him more than in any other section.

The Industrial and Agricultural Department of the Southern Railway and Associated Lines is maintained to build up both the agricultural and industrial interests of the territory these lines serve. Industrial and Immigration Agents co-operate with the people of the territory in its proper development.

The Agricultural, Farm Demonstration, Live Stock, Dairy, Poultry and Horticultural Agents will help the new settler or the farmer already located in solving the problems of proper crops, soil treatment, methods of cultivation and other matters relating to crop improvement and crop making.

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M. V. RICHARDS

Industrial and Agricultural Commissioner  
ROOM 51, WASHINGTON, D. C.



TRADE-MARK REG. U. S. PAT. OFF. PATENT APPLIED FOR  
**EGG-O-HATCH**

**How and Why it Betterst the Hatch And Brings Stronger Chicks**

Egg-O-Hatch is a dry powder. Mixed with water it makes a solution rich in loosely available oxygen and with a strong affinity for carbon dioxide. That is, when applied to eggs during incubation, it soaks into the shell and supplies oxygen for the growing chick; absorbs the carbonic acid gas given off; further, by its action on the animal matter of the shell, it renders the shell more porous and brittle.

Up to the hatching point, a chick breathes through innumerable blood vessels located in the inner membrane just within the shell. Close the pores of the shell and the chick quickly dies. Partially close them and the chick is weakened just the same as if partially strangled. If, at the same time, the shell is drying out and becoming harder, tougher and non-porous, a point is reached where the chick is too weak to break out of the tough shell.

**The margin between strength of chick and strength of shell is small at the best and good hatches can result only when this margin is kept as large as possible**

Egg-O-Hatch is easily and quickly applied to eggs by spraying or dipping. It is used only three times during the 21 days. Our later experimental hatches have invariably shown from 10 to 40 per cent better hatches where Egg-O-Hatch was used, and all were better, stronger chicks. Fifty test hatches showed an average of 96 per cent for eggs treated with Egg-O-Hatch, and 81 per cent for eggs not treated, RIGHT IN THE SAME MACHINE. Egg-O-Hatch is easily proven. Use it on half the eggs in an incubator. ONE SIZE ONLY, 50 cents postpaid, or at dealers. Sufficient for 600 to 700 eggs. Sample 10 cents. Enough for 50 to 100 eggs. Our No. 19 Atomizer, all glass and rubber, is handiest and best way to apply Egg-O-Hatch. PRICE 75 CENTS.

To rid chickens and their roosting places of lice and mites, paint or spray Lee's Lice Killer on the roosts. Kills lice on bodies of poultry roosting over it; also insects causing "scaly leg." No handling, dusting, dipping or greasing. \$1.25 gallon, express prepaid; \$1 at dealers.

Germozone, given in drinking water, purifies the water and vessels, prevents spread of disease, counteracts musty or spoiled food, prevents and relieves bowel troubles. Is effective remedy for roup, colds, swelled head, canker and skin disease. Liquid form, 12 oz., 50c; tablet form, 50c postpaid.

Egg-o-latum, for preserving eggs, 50-dozen size, 50 cents postpaid. Lee's Egg Maker, five sizes, 25c, 50c, \$1.25, \$2.50 and \$8. Lee's Louse Powder, two sizes, 25c, 50c—1/4 and 3-lb. sizes. Mandy Lee Incubators, 60 to 300-egg. Brooders, 5 kinds. Send for catalog, poultry books and delivery terms.

**GEO. H. LEE CO., 319 Lee Building, Omaha, Neb.**

### Scott's Anconas and Silver Campines

My beautiful and vigorous Ancona cockerels for sale at \$2, \$3 and \$5 each utility. Select breeders and exhibition birds quoted upon request. Three sweepstakes to their credit at three large shows exhibited at this fall. Our breeding pens will be better than ever before, the coming season. Customers receiving better quality for same old price, \$2, \$3 and \$5 per setting of 15 eggs. We will appreciate your order or inquiry. Two-cent stamp brings catalogue.

**CEDAR HILL POULTRY FARM, H. A. SCOTT, Prop. Cumberland City, Tenn.**

### Buff Orpingtons, S. C. R. I. Reds and Barred Rocks

My stock is better this year than ever before. Yearling hens and cock birds at close prices. Cockerels and pullets in fine shape at \$10, \$15, \$20 and \$25 for pen of four pullets and one cockerel. Single cockerel, \$3, \$5, \$10; pullets, \$1.50, \$2.50, \$5.00. Am sold out on Barred Rocks except a few fine pullets. Correspondence solicited. Satisfaction guaranteed.

**S. M. HARBISON,  
Danville, No. 410 A Maple Ave,**

Kentucky

### Ask my competitors at Memphis and Chattanooga about the Lake Forrest Strain of S. C. Reds

It takes a Farrar Red to win over Farrar Red. For nine years I have been perfecting this wonderful strain, the strain that makes the other fellow nervous when they enter the show room. They can't be defeated. Buy some of my stock and compare them with what you have been paying twice the price for from the Eastern breeder. Rhode Island Red, enough said the hens that lay in December as in May. Eggs \$3.00 (three dollars) per setting. Fifty cockerels for sale.

#### LAKE FORREST REDS

CHATTANOOGA

W. H. FARRAR

TENNESSEE

Just say you saw it in THE INDUSTRIOUS HEN.



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LOUISVILLE, KY., JANUARY, 1917

(Whole No. 141)

No. 8

## PROPER USE OF VALUABLE MALE BIRDS

**Make the Most of Your Breeding Pens—Report of American Egg Laying Contest—Breeders of the Central West Must Learn to Hatch Earlier**

By T. E. QUISENBERRY, Leavenworth, Kansas

**T**HE most serious thought that a poultryman gives his business should be the consideration he uses in mating his breeding pens. By this time the most careful breeders have planned their matings for the coming season. Take a long last look to make certain that you make no mistake. Your success for next season, and perhaps for several seasons, depends upon your matings for your 1917 hatches.

We would rather have one good male at a fair price than a half dozen males of questionable quality at a low price. A lot of surplus male birds of questionable quality kept around the poultry yard are a nuisance and a great expense. We believe that the average poultryman keeps too many roosters. If he has an exceptionally good male he should cross him on all the females possible. We would rather have one good male to breed from than a half dozen males of medium quality. The more hens you can cross on your best male, the larger per cent of high quality chicks you will have. It is a mistaken idea that a male has to mate with a hen for every egg which is fertilized.

I made some tests along this line and I found that in the case of one hen (No. 896) that she was treded by a male only once and the male removed from the pen and no other male allowed to mate with her. She laid eight eggs in the following eighteen days and the last laid on the eighteenth day, every one of them being fertilized at the one treading. If it was not for the fact that a greater portion of male germs are destroyed by various causes and for various reasons after being deposited, a single copulation by the male would deposit enough germs to fertilize all the eggs laid by an ordinary hen in a year's time. The reason these eggs are fertilized in some cases for three weeks after a male has been removed from the pen is simply because some of the germs remain alive and active for that length of time in the oviduct or body cavity surrounding the ovary.

In this same test—hen No. 115: The last fertile egg was laid on the seventeenth day after the male was removed. Then No. 116 fertilized her eggs for eleven days after the male was removed. Hen No. 117: The last fertile egg which hatched was laid nineteen days after the male was removed. Two of her eggs were fertilized on the twenty-fifth and twenty-sixth days, but the germs were weak and died. One egg was fertilized on the fourth day, and she laid seven eggs in the following fourteen days, all of which were infertile; then fertilized another egg on the nineteenth day and again on the twenty-fifth and twenty-sixth. Hen No. 119: Last egg fertilized was laid on the thirteenth day after the male was removed. Hen No. 121: Last egg fertilized on twelfth day after removing the male. Most of these hens were treded only once and the male then removed. This indicates that if you have an exceptionally good male that you could mate him to twenty or twenty-five females, give them all the range possible, feed and handle them as breeding stock should be handled, and you can expect reasonably good results. If a male has the right amount of vitality to

fertilize a reasonable per cent of the eggs in a pen of ten females, he will take care of twenty just about as satisfactorily.

Professor Phillips, of Purdue University, also made some tests along this same line this last season and in speaking of the question in a recent issue of the Country Gentleman, he had this to say:

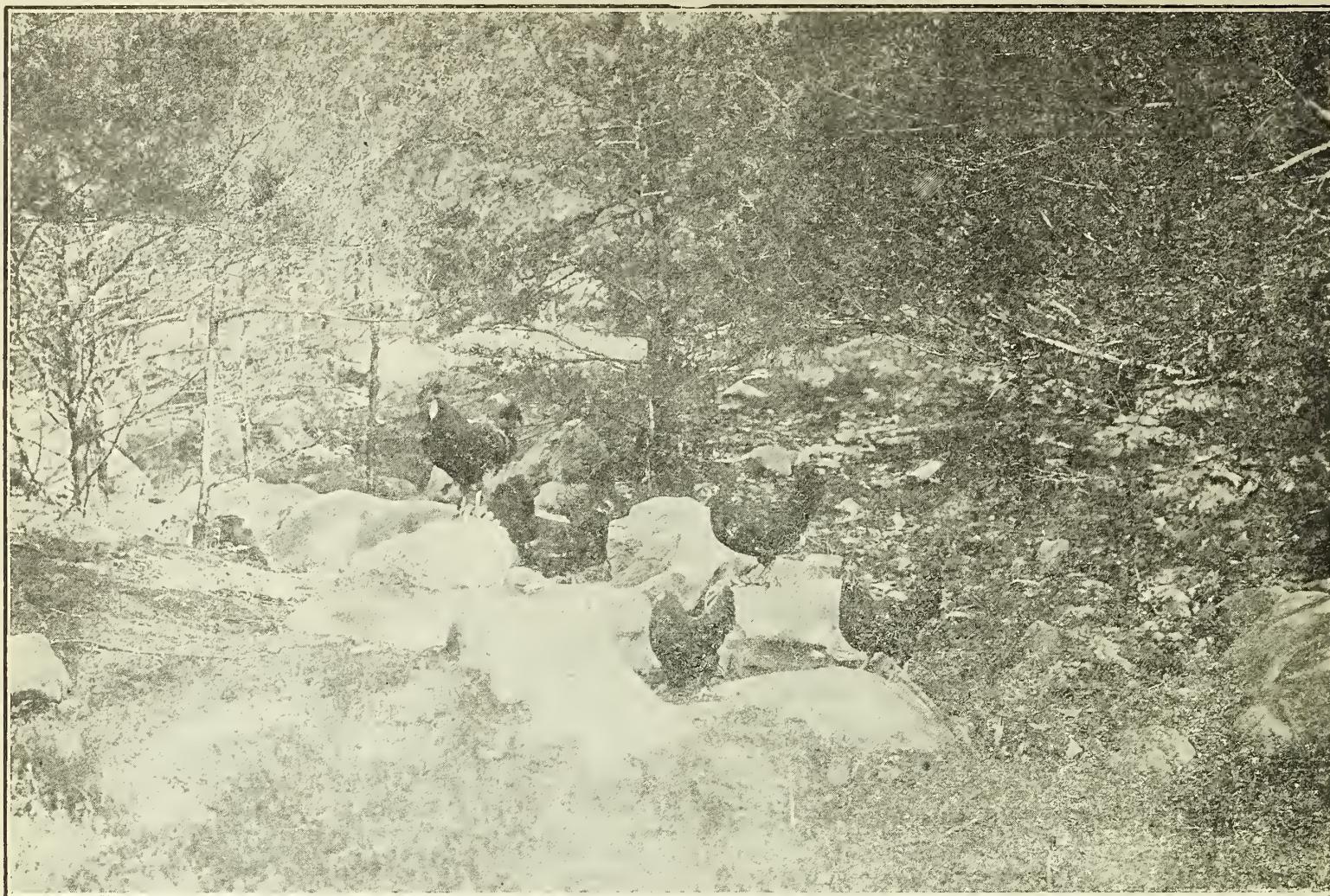
"How many hens should be placed with one male? The general recommendations are eight to ten for the heavy breeds, ten to twelve for medium sized birds and twelve to fifteen for those of small size. A test was made last spring with a Leghorn cockerel and ten hens. These birds had been together all through the breeding season and were kept under good conditions. They were observed for two successive days from 6:40 a. m. to 5:30 p. m. The hens were marked so that they could easily be identified. The number of matings with each hen is listed below:

### Matings for Each Hen.

|                 | First Day. | Second Day. | Ave. Daily Matings. |
|-----------------|------------|-------------|---------------------|
| Hen No. 1.....  | 3          | 2           | 2.5                 |
| Hen No. 2.....  | 4          | 5           | 4.5                 |
| Hen No. 3.....  | 3          | 2           | 2.5                 |
| Hen No. 4.....  | 3          | 4           | 3.5                 |
| Hen No. 5.....  | 3          | 3           | 3.0                 |
| Hen No. 6.....  | 1          | 1           | 1.0                 |
| Hen No. 7.....  | 4          | 3           | 3.5                 |
| Hen No. 8.....  | 1          | 2           | 1.5                 |
| Hen No. 9.....  | 2          | 1           | 1.5                 |
| Hen No. 10..... | 1          | 2           | 1.5                 |
| Total .....     | 25         | 25          |                     |

"The male showed no preference as to the hens he desired to mate with and the hens really controlled the mating. This point was markedly shown by the broody hen that would not permit the male's attentions until she had been off the nest for twenty-four hours. She began laying nine days later and her eggs were fertile. If one union fertilizes many eggs the method of management mentioned above was uneconomical, for the male could have been used with many more hens. Some examples of this fact are shown by the following: One flock of 260 pullets had ten cock birds with it and produced eggs that hatched more than sixty per cent of the eggs set. One flock of thirty-five females had only one three-year-old cock bird with it and the fertility was very satisfactory. One male that had been taken away from his flock for fifteen days was returned one afternoon and in three hours he mated thirty-eight times."

If you are to make the most of the next hatching season these are points worthy of some consideration. The failures in the past has been caused in many cases by the failure of the people to be able to hatch and rear chickens of sufficient number and quality to keep up their flocks. The farmer or poultryman who cannot raise to maturity as many good chickens each year as he had to begin with is destined to certain failure sooner or later. Your success or failure in the poultry yard each season depends upon your success or failure in raising a reasonably large per cent of chickens of high quality.



## SILVER CAMPINES AT HOME.

**First young pen and first prize cockerel at Memphis, Nashville and Chattanooga.** Bred, owned and exhibited by H. A. Scott, of Cumberland, Tenn. Mr. Scott also breeds high class Anconas. Write him for his catalogue.

## The Contest.

Will the poultry breeders of the country ever learn that they must hatch their pullets reasonably early if they are to lay high priced winter eggs? There has been 120 pens entered in the American Egg Laying Contest. The large majority of these birds are undeveloped and will not lay for thirty days or more. If those who are specializing in market eggs expect to make the most of their business, their chicks should be hatched early enough so the pullets would begin to lay by November first, or before. One pullet may not lay as many eggs as another but if the first lays eggs in winter she will likely be more profitable than the latter. Leghorns scored highest this month because they were further developed than the larger breeds.

About thirty States are represented, with twenty-two varieties. Pen No. 16, White Leghorns from Kansas City, Kan., won the cup for the best November record by laying eighty-seven eggs. The ten highest pens for the month were as follows:

| Pen. |  | Eggs. |
|------|--|-------|
| 16.  | Single Comb White Leghorns, Kansas       | 87    |
| 9.   | Single Comb White Leghorns, Pennsylvania | 68    |
| 101. | Single Comb White Leghorns, Nebraska     | 57    |
| 25.  | Single Comb White Leghorns, Maryland     | 57    |
| 20.  | Single Comb White Leghorns, Missouri     | 54    |
| 100. | Single Comb White Leghorns, Nebraska     | 52    |
| 11.  | Single Comb White Leghorns, Indiana      | 52    |
| 0.   | Rose Comb White Leghorns, Illinois       | 51    |
| 22.  | Single Comb White Leghorns, Pennsylvania | 46    |
| 55.  | Rose Comb Rhode Island Reds, Missouri    | 45    |
| 26.  | Single Comb White Leghorns, Kansas       | 45    |

The highest individual records in the pen contest were as follows:

| Hen.  |   | Eggs. |
|-------|---|-------|
| 1092. | Rose Comb Rhode Island White, New York  | 25    |
| 871.  | White Plymouth Rock, Tennessee          | 24    |
| 461.  | Rose Comb Black Rhinelander, California | 24    |
| 812.  | Columbian Wyandotte, Iowa               | 23    |
| 763.  | White Wyandotte, Arkansas               | 23    |
| 1006. | Single Comb White Leghorn, Nebraska     | 23    |
| 375.  | Single Comb Brown Leghorn, Tennessee    | 23    |
| 401.  | Anconas, New York                       | 23    |

## Individual Contest.

In this contest birds can be entered any time during the year. All varieties are kept in one large house. They all roost together, eat from the same hopper and drink from the same pan. The five best records for November were as follows:

| Hen. | Eggs.                               |
|------|-------------------------------------|
| 739. | Single Comb White Leghorn, Missouri |
| 388. | Single Comb Buff Leghorn, Michigan  |
| 198. | Rose Comb Red, Ohio                 |
| 118. | Single Comb White Leghorn, New York |
| 468. | White Plymouth Rock, Kansas         |

I hereby certify that the above is a correct report of the first American Egg Laying Contest for the month of November.

T. E. QUISENBERRY, President,  
American School of Poultry Husbandry.  
Leavenworth, Kas.

## PREPAREDNESS IN POULTRY KEEPING.

## Some Valuable Suggestions to Follow During the Coming Hatching Season—Selecting the Eggs—Care of the Hen and Incubator—How You Can Get Strong, Healthy Chicks.

By F. W. KAZMEIER, Poultry Husbandman,  
A. and M. College of Texas.



N selecting eggs for hatching, remember that a small egg will hatch a small chick that will be weak, hard to raise and unprofitable when mature. Incubate only good sized eggs, weighing not less than two ounces each and of a color characteristic of the breed. Abnormally large or small eggs should not be hatched. Do not hatch any eggs older than ten days. The fresher the eggs the better the hatch and the stronger the chicks. When saving eggs for incubation keep them in a temperature as close to 58 to 60 degrees as possible. Keep them covered and in a fairly damp place. Do not wash hatching eggs. When eggs for hatching are purchased it is advisable to dip them into a 92 per cent solution of alcohol or in a two or three per cent solution of some standard disinfectant like Kreso or Zenoleum, because sometimes disease germs adhere to the outside of the shell. Dust the hen with some good lice powder before placing the eggs under her. Repeat a week later, and again if necessary. Watch the hen, nest and nesting material for lice and mites.

The number of eggs to be placed under a hen depends on her size and the season of the year. The usual number

a medium sized hen can comfortably cover in the natural season is fifteen. During very warm weather this hen could perhaps cover seventeen eggs. If possible, set two hens at the same time and give all chicks hatched to one hen.

The best feed for a setting hen is whole corn, fresh water and grit. Provide these in such a way that she can get to them at will. Watch the hen as much as possible, because frequently things happen that require attention. As soon as chicks are all hatched, dry and lively, grease them on head and neck with common lard. This kills the lice that may be upon them. Repeat this about once a week. Watch your chicks carefully for lice and mites.

The best incubator is the one that hatches the largest number of strong chicks. Some incubators hatch a large number of chicks but they are weak and hard to raise. After you have selected your machine, uncrated and set it up, the next thing to do is to place it level in all directions. Heat it up gradually. Start with a small flame. Use good kerosene. Operate the machine at least two days before placing any eggs in it. It is good practice to operate the machine empty until it is fully under the control of the operator. Place the machine in a room with a uniform temperature and plenty of fresh air, without strong currents of air passing directly over or close to the machine. A room with a cement or dirt floor is the best. This makes it possible to flood the floor once a day. This has been found very satisfactory. The first two or three days keep the temperature rather low, say 101 to 101½ degrees, then raise the temperature to 103 degrees and keep it there as nearly as possible until the nineteenth, twentieth and twenty-first day, when it is advisable to allow the temperature to run up to 104 to 105 degrees, but never higher. Keep the temperature as uniform as possible. Follow directions coming with the machine. Handle eggs with clean hands. Turn eggs twice a day from the morning of the third day to the evening of the eighteenth day. Study the ventilation of the machine. Watch the lamp very carefully and inspect the last thing before retiring. At hatching time keep the incubator door closed. If a glass door, darken the interior by hanging black cloth or paper over it. Do not allow the chicks to pant. If they pant, increase the ventilation.

#### KENTUCKY NATIONAL EGG LAYING CONTEST

Started on November 1, at the Experiment Station Farm at Lexington, will be One of the Most Successful Contests ever Held and will be a Wonderful Help in Boosting the Poultry Industry in the South—Some High Records are Expected to be Made During the Year.



THE first annual egg laying contest held under the auspices of the Kentucky Agricultural Experiment Station started November 1, with an entry list of thirty pens. Four breeds, including twelve different varieties of poultry, are represented in this contest, and come from five different States. The primary purpose of holding this contest is to create a new and added interest among the people in the keeping of more and better purebred poultry. Kentucky is peculiarly adapted to the raising of poultry, being fortunate in having an almost ideal climate, being able to produce almost all of its own feeding stuffs, and having a vast amount of land situated in nearly all sections of the State that is better adapted to the raising of poultry than most any other agricultural product. With all of these favorable conditions, however, the government census of 1910 shows that Kentucky produced only \$6,522,558 worth of poultry and poultry products as compared to \$21,409,053 for Illinois, \$20,897,208 for Missouri, \$17,432,289 for Ohio and \$13,789,109 for Indiana.

#### Plan of the Contest.

The contest yards are located on the experiment station just outside of Lexington, Ky. The pens are situated on the highest spot of the farm and hence excellent drainage will always be afforded. Each house is 8x12 feet in size, with a partition through the middle, thus allowing two pens of birds for each house. Each pen is exactly the same in construction, so that the birds are all placed under the same conditions. The houses were constructed with the idea in view of protecting the birds in case of any climatic change that might occur. The open-front curtain works as a window, and can be raised or lowered at will, and as a result it can be adjusted to any change of the weather. The majority of cloth curtains

used in poultry houses of today are hinged at the top and must be either entirely closed or left entirely open. For this reason many damp houses have resulted and have caused the spread of roup and other serious diseases.

There are two sash to each pen which are hinged at the bottom and open at the top. These windows have a ten-inch board protruding backward from each side and into the house. It is therefore necessary for the air to enter from over the top of the window and emanate evenly over the birds with no chance of rain or wind striking directly upon the floor. With this form of house construction the cloth curtain may be completely closed and yet the windows may be opened, assuring an abundance of fresh air and sunshine and yet eliminating all rain and drafts which are so detrimental to egg production and to the general health of the birds.

The roosts are so arranged that a cloth frame can be closed against them, thus insuring the birds a better protection on extremely cold nights. This is thought to be essential since the houses are only eight feet deep and such a few birds would suffer considerably in such a shallow house unless given the added protection of the cloth frame.

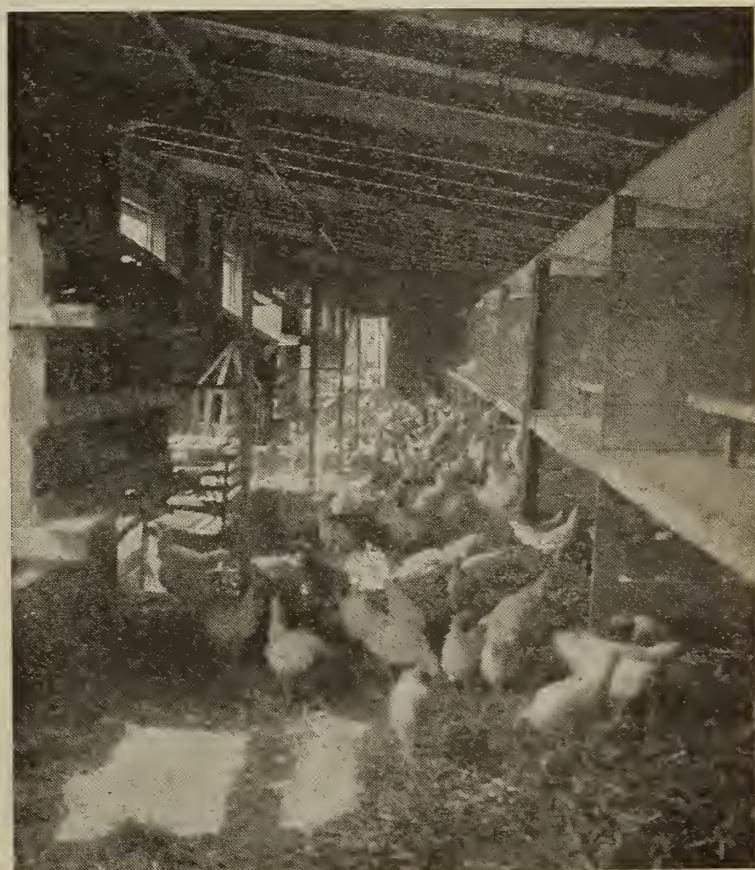
It is as essential to have a house cool in the summer as it is warm in the winter. The ventilator at the rear allows only an indirect draft to pass through the house and yet a circulation of air is always maintained during the hot summer months. The ventilator is closed during the entire winter.

#### Yards.

The double yarding system is used in this contest. Each pen is given a yard 25x60 feet, with a partition through the center. In this manner the yards are alternated each week and with the wonderful blue grass growing in this section, it will be possible to keep green food before the fowls at all times during the year.

#### Feeding.

All contestant birds receive the same ration. The only difference in the feeding lies in the fact that some birds eat more than others. A grain ration consisting of two parts of cracked corn, two parts of wheat and one part of oats, by weight, is fed to the birds in a deep litter each morning and evening. Also a dry mash consisting of the following ingredients is before the birds in a hopper at all times: 60 pounds corn meal, 60 pounds shipped stuff, 30 pounds ground oats, 50 pounds meat meal and 10 pounds of charcoal. Grit and shell is fed in hoppers and is before



Interior view of one of the breeding houses on Gault Egg Farm, Champaign, Ill., where hundreds of choice breeders are kept busy producing fertile eggs for hatching.

the birds all the time. In preparing the above ration, simplicity and efficiency are taken into consideration. Owing to the peculiar physical structure of the fowl it is impossible to figure any exact maintenance ration. However, the ingredients used in this formula are so brought together that it approaches the ratio of 1:4.5, which is commonly accepted among poultrymen as a balanced ration for laying hens.

#### New Factors of This Contest.

Aside from attempting to increase interest in the keeping of more and better poultry, another idea of this contest has been to place it upon a basis of dollars and cents. Previous contests and of a similar nature have strived as their highest goal the production of the greatest number of eggs, with no particular attention being given to the size of the egg. It is a well known fact that certain strains of birds produce larger eggs than others, and that certain individuals within the strain produce larger eggs than the flock average. Experimental work carried on in the past has proven conclusively that normal sized eggs weighing two ounces or more will produce larger chicks than those weighing less than two ounces. It is also known that the size of the egg produced is an inherited character to a marked extent. Therefore, by simply selecting the larger eggs for hatching purposes the farmer can increase within a few years both the size of his fowls and the size of the eggs produced.

In nearly all highly specialized egg markets, eggs are graded according to size and color, and those weighing two ounces or more command a higher price than the smaller egg. Quoting from the weekly price sheet of Butchelder & Snyder Co., of Boston, Mass., for December 9, 1916, the following is to be found: "If you expect top quotations for your eggs, they will have to be large, brown, strictly fresh and clean. All eggs shipped to us are inspected by expert inspectors."

The United States Government has recently created a Bureau of Markets and laws are being passed regulating everything of a commercial value, and it is safe to assume that the time is not far distant when eggs will be sold by the pound and not by the dozen. With this point in view, all the eggs produced in this contest are weighed separately and graded into firsts and seconds. Firsts weighing two ounces or over and seconds weighing less than two ounces. All firsts are given top local market value and seconds are given a set price of three cents less on the dozen. In this manner it will be possible for two individual hens or two pens to produce the same number of eggs and yet one pen or hen can receive a greater net value than the hen or pen producing the same number of eggs, but giving a lesser weight.

In addition to the usual prizes awarded for pens and individuals producing the greatest number of eggs, fitting premiums will be given to owners of birds that produce the greatest weight of eggs for the year.

It is to be hoped that an object lesson of great value can be drawn from reports issued of this contest. The matter of selection is an important one and the poultryman who starts now to breed for increased size of eggs is going to be far in the lead of the less progressive man who waits for the actual condition of a standardized egg to be placed on the market.

#### HOW TO SELECT LAYING HENS.

**Great Care Should be Used in Selecting Your Layers—Some Splendid Rules to Follow when Weeding Out the Drones—By Careful Selection of the Layers a Profit-paying Flock can soon be Established.**

By F. W. KAZMEIER, Poultry Husbandman,  
A. and M. College Station, Texas.



EVERY farmer and poultry raiser should make it a point to closely cull his flock in the fall of each year. It is often possible to discard a third of the number, or more, thus reducing feed bills without noticeably affecting egg yields. The following proven facts should enable anyone to detect the best layers:

1. Hens that molt late and quickly, are the best layers. By this is meant hens molting during the latter part of September, October and November are better layers than those molting earlier. It is poor judgment to keep those birds molting early and sell those molting late, although

this is done on many farms. Experiments have repeatedly proven that 200-egg hens do not begin to molt until November.

2. Individual hens with pale colored shanks, in such breeds as the Rocks, Wyandottes, Reds and Leghorns, are considered better layers than those with bright and yellow shanks. This indication is true only when applied in the fall of the year, and among breeds with yellow shanks.

3. The above principle applies also to the color of ear lobes in breeds with yellow, creamy or white lobes. The many varieties of Leghorns can be divided by this indication. The Rocks, Wyandottes and other American, Asiatic and English breeds have red ear lobes, hence this indication for these breeds is valueless. Experience has shown that Leghorn varieties with white ear lobes in the fall are better layers than those with yellow or creamy colored ear lobes.

4. A constitutionally strong bird, one that passes through the molt quickly and easily, is a better layer than one that develops all kinds of ailments during this period.

5. Hens that show the least broodiness are better layers than those that are broody a large part of the time.

6. A bird with closely worn toenails is considered a better layer than one with long nails.

7. A hen that goes into the molt with worn and ragged plumage is a better layer than the bird with no such marks that bespeak hard work during the preceding year.

8. A bird first off the roost in the morning and the last to return to it at night is considered a better layer than the one that spends the major portion of her time on the roost, or stands around with a "humped-up" appearance in a corner of the pen or basks all day in the sun.

9. A singing and working individual is always a better layer than the quiet and lazy kind.

10. Hens that go to roost with a full crop are good layers, hence the saying, "A heavy eater is a good layer."

11. A fowl must carry a little fat in order to be in laying condition. A poor or lean hen can never be a laying hen.

12. Rather large comb and wattles for the breed is considered another characteristic of a good layer.

13. Some breeders insist that Leghorns with rather high tails are better layers than those with very low tails.

14. Pullets that commence laying early are considered better layers than those that mature late, hence the statement, "Keep the early laying pullets."

#### NOVEMBER REPORT OF NATIONAL EGG LAYING CONTEST AT MOUNTAIN GROVE.

Fifty-eight Pens Entered, Representing 12 States and 24 Varieties—Seven Varieties Represented by Pens in 10 Highest Places for November.—Many Ties for Individual Honors—November Record Above Average—Pedigree System Explained.

By C. T. PATTERSON, Director.

#### The Pedigree System.

WING to the many questions asked concerning the keeping of pedigree records, we believe an explanation of the pedigree system used at this place will be of interest to all who intend to keep records of their breeding yards next year.

The success of any institution depends to a great extent upon the system of operation and system of records. The two most important points to be considered are accuracy and simplicity. It is necessary for all poultry breeders who do accurate breeding to adopt some method or system of keeping records, and the less complication, the greater the value of the system.

The Missouri State Poultry Experiment Station is all under one system of band numbers, which is as follows: All pens are numbered, the male in each pen bears the same number of the pen, and each hen bears the same number and in addition her individual number to the right. To illustrate, pen No. 147 contains male No. 147, and females from 1470 to 1479 inclusive, there being ten females in each breeding pen, and where hens and pullets are used in the same pen, the first five are hens and the last five are pullets. Hide the right-hand figure of a hen's number and you have the pen number, also the male's number in that pen. One yard may contain a number of pens but this



does not break the numbering system. If any bird gets out of the pen, the number tells where it belongs, which saves much time referring to records.

Each hen is caught in a trapnest when she goes on to the nest to lay, and upon being released her band number is placed on the egg. It will be seen that an egg marked 1472 is from hen 2 in pen 147 and fertilized by male 147, while 1476 is from pullet 6 in pen 147 and fertilized by male 147.

When the egg is incubated and the chick hatched in pedigree tray, the number on the egg is placed on the chick's leg band and as soon as the band needs loosening because of the chick's leg growing, the band is placed in the chick's wing where it remains permanently. Thus the pedigree band is in the wing which will prevent confusing the pullet with the hen which has her band on the leg.

Breeders who do not mate more than ten pens should number their pens next year 170 to 179 inclusive and the next year number the pens from 180 to 189 inclusive, etc. The two figures to the left represent the year. Where records are kept in this way any bird which has pedigree band 1734 is from pen 173, male 173, hen 4 and hatched in '17, while pedigree band 1878 is from pen 187, male 187, pullet 8 and hatched in '18. The one simple number tells the year, pen, sire, dam of each egg or chick so numbered.

The only handicap with this system is the stamping the numbers on the chick bands, which is done with small steel dies, but this is overbalanced by the value of being able to tell the pedigree of any egg, chick or mature bird at any time without referring to records.

Band numbers from 170 to 200 for males, and numbers from 1700 to 2000 for females is a complete set of bands for ten breeding pens for three years, 170-179 to be used in 1917, 180-189 in 1918, and 190-199 in 1919.

#### The Contest.

The sixth National Egg Laying Contest began November 1, 1916. The contest is composed of fifty-eight pens, each pen containing five pullets and one substitute. The substitute in each pen is kept in the same yard with the pen so if one pullet dies we have the substitutes' record to use instead of the dead pullet's record. Then, too, there will be no confusion of bringing a new bird into the pen to make the usual round of fights.

The pullets were in average condition to begin with, but some pens were not mature so have not begun to lay. The 290 pullets laid 2,166 eggs during November, or an average of almost 7.5 eggs, which is the highest average made in any contest held at this place for November. The average for the five previous contests was 4.5.

Pen No. 35, White Wyandottes, belonging to J. F. Jordan, Crane, Mo., won the cup for November by laying 108 eggs, while another pen of White Wyandottes was a close second with 107 eggs to their credit.

The five highest pens for the month are the first five of the pens in the ten highest places to date, which are as follows:

| Pen.  | Eggs. |
|---|-------|
| 35. White Wyandottes, Missouri .....                | 108   |
| 31. White Wyandottes, New York .....                | 107   |
| 27. Buff Orpingtons, Missouri .....                 | 100   |
| 22. Rose Comb Reds, Missouri .....                  | 81    |
| 52. Single Comb White Leghorns, Missouri .....      | 80    |
| 12. White Plymouth Rocks, Illinois .....            | 74    |
| 47. Anconas, Missouri .....                         | 70    |
| 19. Rose Comb Rhode Island Whites, New Jersey ..... | 68    |
| 56. Single Comb White Leghorns, Pennsylvania .....  | 67    |
| 18. Rose Comb Reds, Missouri .....                  | 66    |

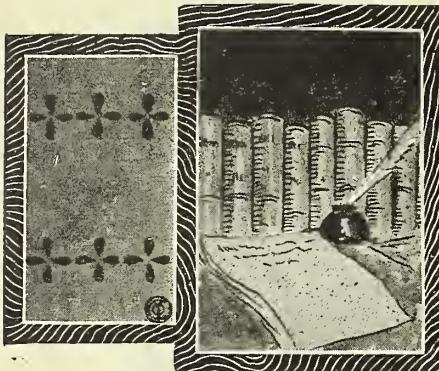
Nineteen hens occupy the five highest places to date, each of the nineteen producing twenty-two or more eggs for the month. They are as follows:

| Hen. | Pen.   | Eggs. |
|------|--|-------|
| 4.   | 35. White Wyandotte, Missouri .....                | 27    |
| 3.   | 6. Partridge Rock, Ohio .....                      | 25    |
| 1.   | 8. White Plymouth Rock, Idaho .....                | 25    |
| 3.   | 31. White Wyandotte, New York .....                | 25    |
| 3.   | 19. Rose Comb Rhode Island White, New Jersey ..... | 24    |
| 4.   | 27. Buff Orpington, Missouri .....                 | 24    |
| 3.   | 35. White Wyandotte, Missouri .....                | 24    |
| 2.   | 1. Missouri White Fluff, Missouri .....            | 23    |
| 2.   | 24. Single Comb Red, Missouri .....                | 23    |
| 3.   | 27. Buff Orpington, Missouri .....                 | 23    |
| 4.   | 29. Buff Orpington, Missouri .....                 | 23    |
| 4.   | 31. White Wyandotte, New York .....                | 23    |
| 3.   | 37. White Wyandotte, Missouri .....                | 23    |
| 1.   | 52. Single Comb White Leghorn, Missouri .....      | 23    |
| 4.   | 15. Single Comb Rhode Island White, Illinois ..... | 22    |
| 3.   | 22. Rose Comb Red, Missouri .....                  | 22    |
| 1.   | 31. White Wyandotte, New York .....                | 22    |
| 1.   | 3. Buckeye, Missouri .....                         | 22    |
| 5.   | 10. White Rock, Washington .....                   | 22    |

#### A MOST CREDITABLE SHOW.

THE North Georgia Fair Association held their first annual fair at Rome, October 17 to 21 inclusive, and the management deserves much credit for having secured a large number of exhibits of poultry, live stock and agricultural products. The poultry department was the feature attraction. Mr. Jule M. Glover, the congenial superintendent, with his untiring efforts, did much to create interest among the "chicken cranks." We are informed that he put on the show. The fair was a success, the attendance was good, there was much interest displayed and next year will be a greater and better one.

F. A. GOODLIN.



# EDITORIAL CORRESPONDENCE

## Prospects Good for a Great Season.

**H.** A. SCOTT, proprietor of Cedar Hill Poultry farm, Cumberland City, Tenn., breeder of Anconas, Silver and Golden Campines, wrote as follows under date of December 18, 1916:

"Your letter received on my return home from the Chicago show, where I had fair success. I find that I will have to cut my advertisement down after Christmas as the orders are coming in so fast I am about sold out of stock and have a number of egg orders booked. I am afraid I will not be able to fill orders."

We are receiving letters every day from our advertisers, telling us of the good business they are getting from their advertising. The coming season promises to be the best we have had for a long, long time, and I know the poultryman will be glad to welcome the good news. Hatch and raise all the ducks that you possibly can this season, for the demand will be as great next season. Also mate up several more breeding pens than you intended to. You will have no trouble in disposing of the surplus eggs you have. If you do not advertise in the Industrious Hen during February, March, April and May and get your share of the business, you will regret it. Better get your copy to us now.

## Our Farm and Garden Department.

**F**OR a long time we have felt the need of an agricultural department in the Industrious Hen; therefore we have decided to start it at the beginning of the new year. We have carefully studied the situation, and the class of people the Industrious Hen reaches each month. The majority of them are living on farms or are interested in farm, garden or agricultural industries more or less. So we believe our new Farm and Garden Department will be welcomed by all of our readers.

It is our desire to give our subscribers a high class poultry and agricultural publication and we will add new features from time to time that will help make the Industrious Hen more valuable and interesting. The Industrious Hen is published in the interest of the Southern poultryman and farmer. We appreciate the co-operation we have received in the past, but if we can get better co-operation from our Soutern friends we can give them a better paper each month. We would be glad to hear from our readers at any time and if you need any information or assistance, we will gladly help you and make no charges for our services. Write us any time and remember we are all one big family.

## Co-operation.

**W**e feel sure that our subscribers and readers fully realize and understand the paper situation at this time and the hardship it works upon the publishers. Right now the cost of paper is higher than was ever known and the chances are it will go still higher and a possible chance of not being able to secure it at any price within the next twelve months. A lot of the publications have already increased their subscription price, and especially the city dailies. We do not want to increase the subscription price of the Industrious Hen and if our customers will co-operate with us we can continue to give the poultry raisers and farmers throughout the South a better paper each month at the same price (fifty cents per year), which is low when you consider that possibly one article will be worth ten times that to you.

If all of our subscribers would get us one new subscriber at fifty cents and send to us in the next thirty days, such co-operation would help tide us over this crisis and would enable us to give our readers a much better paper each month. Each of our subscribers could find it easy to get one of their neighbors or friends to subscribe to the Industrious Hen and could possibly secure as many as four or five or more.

For each new subscriber that is sent in to us on this plan we will give you a year's subscription to the Industrious Hen. If you are an old subscriber we will extend your subscription a year for each new subscriber you send in. If you send in five you will get the Industrious Hen five years free.

This should appeal to all of our readers or subscribers. We are not asking you to do something for nothing, but will pay you well. Possibly a lot of our friends would be glad to do this gratis, but we want to show our appreciation for your help. We must co-operate and work with each other and we hope our readers and subscribers will help us build a stronger and better poultry paper for the South by sending us just one new subscriber or more if they can. Get busy now before you forget it.

**A**dvertising in the Industrious Hen pays. Start your copy now. Let the "Hen" scratch for YOU.

## Order Your Incubator Early.

**W**e urge our readers who are going to order incubators and brooders this season to place their orders early. A great many wait until a few days before they want to set the machine before ordering. Of course they do not do this on pur-

pose, but simply neglect to send their order in in time for the machine to be shipped, so as to reach them on time. By ordering your machines early it helps the manufacturer handle his business and orders in a satisfactory way and you will find you can get your machine just when you want it. Order it at least a month before you want to set it. This will give it time to reach you by freight and also afford you sufficient time in which to become accustomed to the workings of the machine.

If you do not get a good hatch at first, do not blame the incubator. It may be the operator's fault or in some cases the fault of the eggs. We stand back of every machine advertised in the Industrious Hen and believe if these machines are run according to directions, they will hatch you a strong healthy chick from every fertile egg.

Order your incubator early and hatch all the chickens you possibly can. There will be a great demand next season. Then, to keep the hens laying while eggs are so high means more profit. Let the incubator do your hatching.

**S**end us one new subscriber at 50 cents and we will give you a year's subscription to the Industrious Hen free.

## Give the Boys and Girls a Pen of Purebred Chickens.

**I** WILL never forget the first pen of purebred birds I ever owned and the first blue ribbon I won at a poultry show. I thought I was the greatest "chicken man" in the whole country when I won first prize on my cockerel at a poultry show. It was true I did not have much competition and it was quite a small show, but right there I got the "chicken fever" and have never been able to get rid of it since.

Parents should encourage their children in poultry raising and buy them a good pen of birds. This will start them in a profitable and paying business and keep their time employed after school hours. They will be able to realize a nice profit from their birds in a short while and this will encourage them to look after their birds and give them the best possible attention. It will cost but very little to give your boy or girl a start and we urge every father or mother to help them by giving them a pen of purebred birds of their favorite variety. Subscribe for several of the best poultry papers, buy them books on the different branches of the industry in order to educate and help them build up a good profitable business.

**The Value of a Blue Ribbon.**

**T**HE breeder that can go into a show room and win with his birds in strong competition has a valuable asset. Of course winning blue ribbons will not sell your birds, but if you have a good show record and will advertise same, so that the buying public may become familiar with your birds and show room record, you will find little trouble in disposing of your surplus stock and eggs. Every poultry breeder should make as many shows each season as possible. You should not only patronize your home show, but if you think your birds are good enough to go into the big shows, do not hesitate to send them. One fifth prize at a large show is worth a great deal more than a first at a smaller show.

I have known many cases where breeders had good birds, capable of winning in strong classes, but they were afraid to send for fear they could not win. If we never take a chance, we never get very far at this fast age. It is no disgrace to have your birds beaten at the shows and if

**LET THE "HEN" SELL YOUR SURPLUS STOCK AND EGGS.**

Chattanooga, Tenn., Dec. 23, 1916.  
**Industrious Hen,**  
Louisville, Ky.

Gentlemen: Enclosed please find check for \$10.00, and want to congratulate you on the results you are giving me for stock and eggs. I have received orders for over 1,500 eggs in the last thirty days. The unprecedented demand for stock at this season of the year is a surprise to me. I have received orders from Michigan to Florida and if the present demand keeps up I can't begin to supply the needs.

I have never noticed a write-up of our Chattanooga Poultry Show. We don't blow much about our poultry show here, but we always pull one of the best shows in the South, far ahead of Nashville or Knoxville, and we should have more honorable mention.

You can run my display ad as before, but need not use the classified ad. Compliments of the season.

W. H. FARRAR.

you have good enough birds to win look what a valuable asset you have, which will take you just that much further toward success. Blue ribbons are hard to get but they are valuable to have. The shows are now being held all over the country. Be sure to show a strong pen of your best birds at one or more of the large shows. You will not regret it and it will do you a great deal of good.

**Ingratitude.**

The retirement of Grant M. Curtis from actual further participation in the affairs of the A. P. A., is regrettable and is so received by the breeders generally throughout the South. After many years of close identification with this organization, he feels it incumbent on him to withdraw from further active participation in its affairs, through a combination of circumstances that reflects very poorly on the A. P. A.

That there is too much politics, is the general view of the people of this section. Many refrain from joining

this organization who have watched its progress from year to year, because of this acceptance. Mr. Curtis has been a consistent, constructive worker in the interests of the fraternity, and has made a success of everything with which he has been identified. This cannot be said for many of those who have opposed him in the past and who oppose him now. The success that he has achieved in a business way has been a thorn in the side of many who would not of course, admit this fact, but to the man on the outside the evidence is sufficient to warrant the belief. Mr. Curtis may still count on the loyal support of a large number of earnest, intelligent, honest breeders in Dixie, who admire him for his work in the past and who may support him in any of his undertakings in the future.

Have you won your share of the prizes at the poultry shows and fairs? If so you will be able to sell your birds and eggs at a better price than the man who failed to show his birds. If you have not shown your birds, then do so in January and February sure. If you win it will do you good and if you lose it will make you try harder next year. If you lose take the defeat goodhumoredly and try to beat the man that won next year. Everybody admires a good loser. It's easy to look pleasant when you win, but it takes a man to look pleasant when everything goes against him. Be a sport or quit the game. Do you get any lesson from this?

**Buff Plymouth Rocks.**

At the recent Chattanooga (Tenn.) Show, Piney Hill Poultry Farm, Jno. G. Fletcher, proprietor, Chattanooga, Tenn., won as follows on Buff Rocks: first cock, first and second hen and first, second and third pullet. On Single Comb White Leghorns, he won fourth cock, fourth and fifth pen and fourth pullet. If you are in need of either stock or eggs, be sure to write Mr. Fletcher at once and get his prices on both varieties. You will find his advertisement in this issue.

"DIXIEDOTTE STRAIN"  
**WYANDOTTES**   
**WHITE**  
**Chicago Coliseum Win**  
**1916**

Telegram says Dixiedotte entry won FOUR PRIZES in THREE HOT CLASSES. Our birds are bred right under ideal climatic conditions, on natural green runs 365 days in the year. Consider the Dixiedotte record at Chicago, St. Louis, Memphis, Indianapolis and other shows. Eggs ready to ship from best matings \$5.00. Utility, \$2.00 per 15; \$24.00, \$10.00 per 100. Also choice breeders.

**CARRINGTON JONES**

BUNTYN, Box 173 TENNESSEE

**Eggs, Eggs, Eggs—White Plymouth and Rose Comb Brown Leghorns**

Write for special discount price on advance orders received before February 1st. Write for handsome 1917 Mating Catalogue. Address,

MR. C. C. WORTHINGTON 1037 Cherry, EVANSVILLE, INDIANA.

**ENGLISH S. C. WHITE LEGHORNS**

Nothing but the best and bred to lay. Let us furnish you with stock, eggs and baby chicks. We guarantee satisfaction or refund your money. Eggs for hatching, \$1.50 per 15. Baby chicks 15c each in 100 lots; any amount under 100, 17c each. Write us. We can please you. Address,

LINCOLN POULTRY FARM, Clarence Rogers, Proprietor.

HODGENVILLE, KY.

**EGGS!****EGGS!!****EGGS!!!**

White and Barred Rocks, Golden Wyandottes, Buff Orpingtons, S. C. R. I. Reds, S. C. Brown and White Leghorns, Anconas and Silver Hamburgs.

Write for prices, satisfaction guaranteed.

MOUNTAIN-VIEW POULTRY YARDS.

Unionville, Virginia

**REGALS ARE GREAT LAYERS**

One of the most important requisites in building up a strain of layers is strong constitutional vigor. This is found in Regal Dorcas White Wyandottes, to a very marked degree. No matter whether you live in the North or the South, they will always come up to your most sanguine expectations as the following letters show:

Calgary, Alta, Jan. 18, 1916.  
Dear Sir—I might say that the pen of birds I got from you a year ago turned out fine. They laid well and the pullets from them are laying fine. I am getting a 50 per cent egg yield from them and the weather has been ranging from 2 degrees to 40 degrees below zero. Still they keep right on. Thanking you for past favors. Yours truly F. S. BROWNIE.

Sanford, Florida.

Dear Sir—My birds are coming on fine, getting eggs, eggs, eggs from them every day. I am delighted with the Regal Strain, and am planning to make a specialty farm with the Regals as the Birds. Am glad to hear of your victories at New York State Fair and Hagerstown. Thanking you for past favors. I remain, Yours Sincerely, F. P. STRONG.

If you are not getting good results in fertility or egg production, if your birds are weak in constitution and not as vigorous as you would like, why not make a new start with the Regal White Wyandottes? They have been tried and not been found wanting. Do not delay but reserve your birds now while I have plenty to select from.

4000—Cocks, Hens, Cockerels and Pullets for sale—4000  
Special value pens, male and 4 females \$25, \$35, and \$50.

Dorcas cockerels from high record pens \$8 and up

Dorcas pullets \$4 and \$5 each, stay white utility cockerels \$3 and \$5 each.

FREE—Send for twenty-page catalogue, giving description of stock I am offering for sale. Send one dime for the Regal White Wyandotte Book, telling all about White Wyandottes.

JOHN S. MARTIN Box 911 Port Dover, Ont. Can.



Under this heading "Pick Ups Here and There," we will give our readers each month clippings from our exchanges that we think will interest them.

#### Attend the Poultry Shows.

**B**E sure to attend the poultry shows this season and urge your friends to do likewise, says Dr. Woods in the American Poultry Journal. You can get more first-hand knowledge of the different varieties of poultry by attending a good show and comparing the birds than you can by reading printed descriptions. Take along a Standard and compare the specimens exhibited with the requirements in the different sections. Talk with the breeders about their favorites. If you are interested in poultry and wish to become a successful breeder you will find the up-to-date poultry show a good practical school. Exhibit at your local shows if you have good birds and can show them. Don't feel hard hit even if you don't win. It does makes one feel good to make a win, but it takes a real man or real woman to be a good loser. The good loser takes his losses quietly, without fuss, whine or excuses, and makes up his mind to do better and to win next time. Don't be a poor loser, and don't be a "quitter."

#### Feed Good Grain.

Poultrymen should be very careful in selecting grain with which to feed poultry. Especially is this necessary at this time of high prices, owing to the common belief that any old grain is good enough for poultry feed. Be sure to see that it is dry and sweet. One cannot afford, under any conditions, to feed damaged grain to poultry. Poultry and poultry products are worth altogether too much at this time to take any chances of ruining them with inferior feed.—Inland Poultry Journal.

#### Keeping Accounts.

Every poultry breeder should keep a careful debit and credit account with his fowls. He should know definitely, not only that they pay, but how much they pay. Such accounts need not be elaborate, but they should be accurate. Charge the fowls with all that they consume and credit them with all that they produce; the balance will be the profit. Not all of the profit, for no one can measure in dollars and cents the pleasure that one gets from his flocks, and that is a big item in the real profits.—American Poultry Journal.

#### Care of Hatching Eggs.

Gather eggs early and often during cold weather. Do not keep eggs in a warm room. Eggs for table or for

hatching purposes should be kept in a cool room where the air is sweet and there are no strong or bad odors. Temperature of egg room should not fall below 40 degrees F., or go above 60. In keeping eggs, place in a box or basket in same position as they are usually found in the nest. Do not handle or turn more than is absolutely necessary. Remember that the fresher an egg is when set, the better. Ten days to two weeks is long enough to keep hatching eggs, a shorter period is better, and three weeks should be the limit.—American Poultry Journal.

#### Select Breeders Now.

Select the next season's breeders now as far as possible. Don't sell off all the early, best developed birds and then wonder what is the matter with fertility and hatchability next spring. It is usually said that a cockerel is better to mate with hens and a cock bird with pullets, but if the birds are all well developed and thrifty this does not make much difference; a cockerel with pullets will do very well. However, to carry out certain lines of breeding it may be desirable to mate old with young birds. But to get good hatches, good, thrifty, well developed birds are what are wanted, whether they are old or young.—Poultry Record.

#### I Offer The Best For The Money In

S. C. White Leghorns and White Wyandottes. Eggs \$2.00 to \$5.00 per 15. Stock a matter of correspondence. We have what you need.

J. G. COILE & SON  
Bowling Green, Florida

#### ROSE COMB REDS

A fine lot of cockerels at \$2 to \$15. Three extra fine cocks, \$5, \$10, and \$15. Eggs \$2 to \$5 per 15, after February 1st. State about what you want and we will please you or return your money.

MRS. H. R. NUSZ & SON

Box I. H.

Cecilian, Ky.



#### MAPLESIDE "Bred-to-Lay" Barred Plymouth Rocks

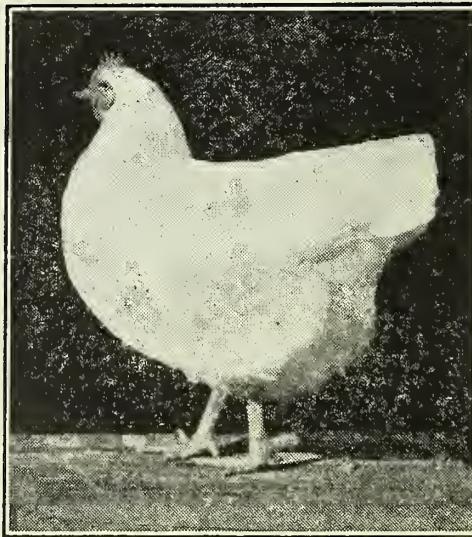
ACKNOWLEDGE NO SUPERIORS AS LAYERS  
About 2,000 1916 hatch stock, including the grandest lot of Pedigreed Breeders I ever offered, having ancestry back of them with yearly egg records up to 297.  
Circular of facts free.

O. F. MITTENDORFF, Box M, Lincoln, Ill.

#### WORTHINGTON'S S. C. WHITE LEGHORNS

Winning at Tri-State Fair, Memphis, 1st and 5th Hens, 3rd Pullet, 5th Cock, 5th Old and Young Pens. Champion Hen. 5th sweepstakes State Show of Arkansas, Danville. Every prize but two in class. Largest and best display. They have won everywhere shown and are Range Raised. White, vigorous, and are bred to better Egg production. My pens are better this year than ever before, and all of them will produce Large, Healthy Chicks that will live, and there will be many winners raised from them. Eggs at \$2, \$3 and \$5 per 15. Baby Chicks. Mated pairs, trios and pens, singles, old or young. Book your order for eggs and chicks early. Satisfaction guaranteed.

H. C. WORTHINGTON,  
FORREST CITY, ARKANSAS



#### Plymouth Rocks White Barred

THE KIND THAT LAY  
WHEN EGGS PAY.

Prize winners and utility stock, eggs and baby chicks for sale.  
Eggs \$1.50 per 15; baby chicks 15c each.

Satisfaction guaranteed.

Highland Poultry Farm  
W. A. LUTHER, Prop.

SHEPHERD, TENNESSEE

Unretouched Photo "HIGHLAND LADY", 1st Prize White Rock Hen, Chattanooga and Memphis, 1915, in competition with 125 single entries. 1st Prize Chattanooga, 1916.



# SOUTHEASTERN NOTES and COMMENTS



By D. R. McBRAYER, Mooresboro, N. C.

**W**E have now entered upon a new year and we should have our plans already laid for our year's work. The man who plans ahead and does his work in a systematic way is the man who achieves the greatest success and who will be able to look back over the year's work next January first and realize that his work has not been a failure. There is a bright future ahead for the poultryman who is willing to work and work hard and unless you are willing to do this, then you had better step out right now. It is well to aim high even if we fall short of our expectations, for we are not apt to do big things unless we undertake them. Plan for a successful year and work to that end and you will be successful. Try it.

The breeding season is now upon us and the work of mating the pens for the egg trade as well as for our own hatching demands no little attention for this is the most important part of the year's work. Use great care in selecting your birds for the breeding pen, for we can hope to advance only in proportion to the advancement made in selecting our birds that are to give us our year's supply of "winners" and "layers." Select only strong good-sized birds and under no circumstances use birds that have failed to grow off fast and make steady growth during their growing up.

Don't sell off good birds to the market just because feed is high. Eggs are high too, and there will be a demand for breeding birds this month and next at good prices. Indications now point to an early end of the European war and if this should come, the man who has a nice flock of hens, real good ones will surely make some good money for the demand for good birds from across the water will doubtless be great. It is true that feed is mighty high, but we can manage to keep the feeding cost reasonably low if we will try. My advice is to keep every laying hen we have and to get ready to hatch more this spring. Business during 1917 will doubtless be away ahead of 1916.

We have just returned from the Charlotte, N. C., poultry show, a show that any association might well feel proud of. It was one of the best shows ever given by one of the oldest poultry show cities in the South. The attendance was very good and the show was successful in every way. The judging was done by Chas. Nixon, of New Jersey, and Mr. Nixon came direct to Charlotte from the Palace show, New York, yet he said that the Red class was the best he had ever seen. There is no doubt that the South is taking the lead in the breeding of fine poultry and especially is the classes of Reds shown at most Southern shows among the best to be found in America. Rocks and Wy-

dottes were also exceptionally fine. The association has already elected officers for the ensuing year and are preparing for an even bigger and better show in 1917, and here's wishing them all the success coming to them. Keep your eye on Charlotte.

Have you started the incubators running yet? If not, then get busy at once and get a few early chicks out in January. If you need a new incubator then place your order at once for the incubator companies are rushed at this season of the year and you may have to wait several days for your machine. Thoroughly disinfect old machines before starting a hatch and likewise with brooders.

The poultry show to be held in connection with the South Florida Mid-winter Fair, Tampa, Fla., February 2 to 10, 1917, promises to be the biggest event of its kind in the South this season. Florida poultrymen have a way of doing things that would be worth our notice further North and we believe that they are going to pull off one of the best poultry shows ever held in America. The prizes are very liberal and they will have the people there to see the birds that are on exhibition and that is what the breeder wants. The outlook is that there will be many good sales made at this show, so if you are looking for a real number one place to show your birds and a place to have a good time for a few days, then "hike" to Tampa the first week in February and take your birds with you.

We have an application for a posi-

tion on a poultry farm by a young man of good habits and willing to work. Home is now in Kentucky but will accept position in another State. Experienced. If you are in need of a man, write me and I will give you his address.

The egg season is upon us and it now looks like it would be a big one. Mr. Poultryman, have you started your advertising? If not, you are going to miss a lot of the early business that is sure to be transacted during January and February. By all means, get your ad. before the public in February if you have missed this number.

Below we publish a letter received from Mr. J. R. Brown, Bramwell, W. Va., one of the foremost breeders of Black Langshans in the South. We thank Mr. Brown for this article and feel sure that it will be worth much to our readers if they will only put this advice to practice. The capon industry is bound to develop more rapidly



### S. C. White Leghorns

Place your order now for eggs and chicks bred from Sangers great egg layers. We guarantee satisfaction or money refunded. Address,

M. G. SANGER & SON  
Leghorn Specialists,

MT. SOLON,

VIRGINIA

### WHITE PLYMOUTH ROCKS

Our birds won as follows at the Tri-State Fair Memphis, 1916: 1st young pen, 4th old pen, 4th cockerel, 4th pullet in competition with World's Fair Champions. Write us for prices on stock or eggs

Mrs. Ira Johnson,

COUNTY AVE. POULTRY FARM,

Texarkana, Arkansas

### KEELER'S

THE ARISTOCRATS OF THE WYANDOTTE WORLD

— WON FIVE FIRSTS AT CHICAGO, 1916 —



1st Cock, Chicago, 1916.

CHAS. V. KEELER,

VIGOROUS  
WHITE

### WYANDOTTES

THE ARISTOCRATS OF THE WYANDOTTE WORLD

— WON FIVE FIRSTS AT CHICAGO, 1916 —

Before you buy a single White Wyandotte send for my large, new instructive catalogue giving the full history of my birds—**The World's Greatest Strain**. A winning and breeding record of 23 years will convince you that I not only have birds that will win in any show room, but will also fill the egg basket, some of my birds laying as high as 265 eggs per year. My prize winning females are selected from among these layers.

**2,000—BIRDS FOR SALE—2,000**

Females \$5.00 to \$25.00; males \$5.00 to \$35.00. Limited number extra choice \$50.00 each. Breeding pens \$25.00, \$35.00 and \$50.00. Show pens \$50.00, \$75.00 and \$100.00. Nineteen-seventeen breeding pens mated December 15.

YOUR WISEST ACT BEFORE BUYING  
IS TO SEND FOR MY CATALOGUE

R. F. D. No. 22

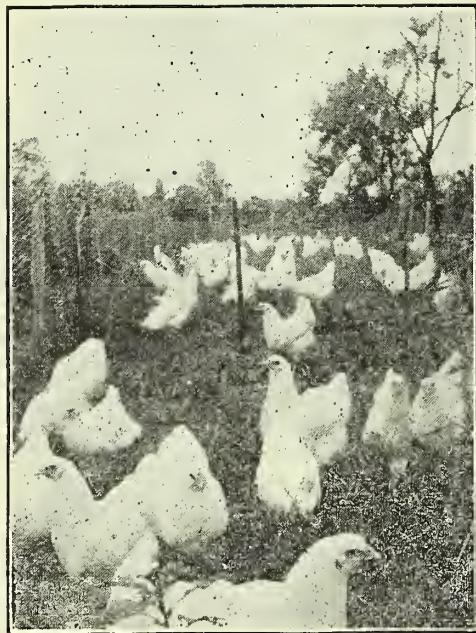
Winamac, Ind.

in the future than in the past as the markets are being developed for the capon. We hope to again hear from this good fancier. Following is the letter:

**Capons and Capons as "Mothers."**

I sold a bunch of capons at Bluefield, W. Va., in ten miles of my home last year for thirty cents per pound, live birds. These birds brought me three dollars each. I am now offered forty cents per pound for dressed capons in Washington. I have some capons that now weigh eleven pounds. How to produce them? Hatch by March 10 from Asiatic eggs—Black Langshans preferable. Never let them know they are fed. When hatched have their little boxes filled with wheat bran, chick feed, grit, etc. Keep grain in litter for them as they grow older. In the fall, if you have grown corn, turn them in the corn lot and bend the stalks down just so they can reach the ears. Keep corn on the cob before them at all time until they are ready to market. They will gain a pound each month until one year old. They are ready sale in the leading cities at one-half more than ordinary fowls. A ten-pound, ten-months-old Black Langshan capon is good enough for the strictest epicurean.

At three months old, or the well developed ones at two months, caponize them. I bought my tools from George Beouy, Cedar Vale, Kan. He sends a book of instructions; follow it to the letter and try your hand. It is easy for me to caponize a cockerel in four minutes.



Flock of White Wyandotte pullets on range owned by Frank Hamerick, Shelby, N. C. See advertisement in this issue.

Capons for "mothers?" Yes, and the best "mother" you ever saw, too. I raised all my chicks this year with capons. How? Hatch your biddies in the incubators, or under hens if you care, and then give them to Captain Capon and let Mrs. Hen go on laying. Put capon in coop where you want your youngsters, put him in a night or two before the chicks are to hatch, fondle him, be gentle with him, see that he roosts in the nest in the corner. When chicks are hatched put two or three under him for first night. He will hover them when you rub them under his wings. Watch him next day (one day only), if he refuses to hover them at any time and the chicks are chirping, rub them under his wings and he will hover immediately. Second night put thirty or forty with him and you will have the best "mother" or brooder you ever had.

J. R. BROWN.  
Bramwell, W. Va.

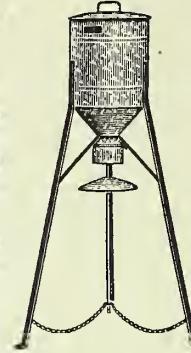
**Buckeye Incubator Company's CaseAppealed.**

Since the last issue of this publication appeared we have been advised that the Model Incubator Company and The Correct Hatcher Company

## Protect Your Poultry Profits

YOU save money and make money when you give your fowls Oakes Quality Poultry Products. You cannot afford to use less than best.

Put them in the pink of producing condition with this



**Oakes Economy Exerciser and Feeder**

Makes them scratch to get the grain; the natural way to exercise. Means health all year round for young and old. Absolutely no waste.

**O. K. Poultry Fountains**

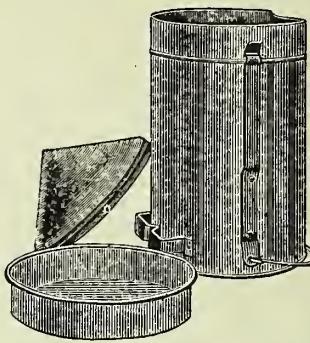
*Built like a Thermos Bottle*

Insure warm water all day. Easy to clean. Saves you time, trouble, money.

**1917 Catalogue Ready—Now**

Includes everything you need for profitable poultry raising; feeders, founts, hoppers, egg testers; specialties and repai's for incubators and brooders.

|                               |
|-------------------------------|
| <b>O. K. Poultry Fountain</b> |
| 1 gallon ----- \$1.00         |
| 2 gallon ----- 1.50           |
| 4 gallon ----- 2.00           |



## The Oakes Manufacturing Co. Dept.

*Makers of everything for the poultry raiser*

Factory and Home Office; Tipton, Ind. Eastern Branch; 64 Cliff St., N.Y. City

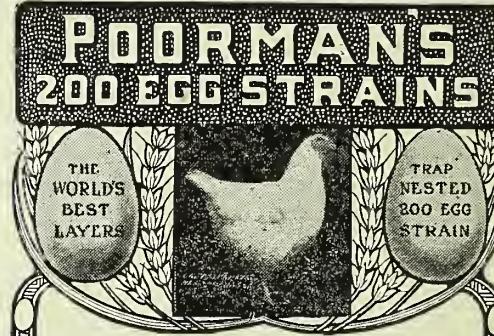
have appealed from Judge Hazel's decision to the Court of Appeals, so that the injunction against them was not issued pending the decision of the Court of Appeals. The defendants have given a bond of \$2,500 pending the decision.

In our last issue we published a quotation from Judge Hazel's opinion as to the specific acts of the defendants, and consider it only fair and proper that we quote further from that opinion as follows:

Importance is, however, attached to the specific type of base in complainants' stove, and the arrangement of the ash pit and sliding door. None of the prior structures show a base of similar shape, nor is it shown that such shaping was necessary to the performance of its functions. The defendants in copying and marketing such base with its sliding door in connection with cone frustum sections of equal height have imparted to their stove an appearance so similar as to unfairly compete with complainants' stove. It is true that defendants have marked their stoves in relief on the sliding door with the words, "Model—Model Incubator Company, Buffalo, N. Y." and "Correct—Correct Hatcher Company, Leesville, Ohio," while on the sliding doors of complainants' stove are impressed the words, "Standard Company, Cleveland, Ohio. Shake ashes every 12 hours. Standard Colony Brooder." But these markings of the corporate names of the makers or of arbitrary designations alone do not sufficiently differentiate the competing products, and as the only feature entitled to protection in complainants' stove is the specific external shape or form of the base, which defendants have imitated and adapted to their stove, a decree, with costs, may be entered enjoining such further use.

**White and Barred Plymouth Rocks.**

W. A. Luther won as follows at the recent Chattanooga District Fair on White and Barred Rocks: On White Plymouth Rocks, second, third, fourth and fifth cocks; first, second and third hens; first, second and third cockerels; second, third and fifth pullets; first, second, third, fourth and fifth old pen; first, second, third, fourth and fifth young pen. On Barred Plymouth Rocks, fourth exhibition cock, first and fourth exhibition hen; fourth exhibition cockerel; first and second exhibition pullet; first exhibition old pen and first exhibition young pen; first and second cockerel-bred hens; first and second cockerel-bred pullet; first cockerel-bred old pen; first cockerel-bred young pen; first and second pullet-bred cocks; first and second pullet-bred cockerels; first pullet-bred old pen; first and second pullet-bred young pen. Sweepstakes; largest and best display; champion pen.



## "LADY ALFARATA" 301 EGGS

**Stock, Eggs, Baby Chicks**

From my improved laying strains of S. C. and R. C. Rhode Island Reds, Barred and White Plymouth Rocks White and Buff Orpingtons, White Wyandottes, White Leghorns, and your careful attention means your success. This is your opportunity to procure a start from strains that have given satisfaction to over 5000 customers in this and foreign countries at very reasonable prices.

**MY PRICES:**

**Hens, \$3.00 and up.**

**Pullets, \$2.50 and up.**

**Cocks, \$6.00 and up.**

**Cockerels, \$3.00 and up.**

Eggs, 15c and 30c each; Baby Chicks, 25c and 50c each. Do not overlook the advantage of booking your egg or baby chick orders early. It will assure delivery when desired. Write for my instructive illustrated catalogue. It has helped others and will undoubtedly help you.

John G. Poorman,  
Box 350 Tinley Park, Ill., U.S.A.

Invest a few cents a month in a classified advertisement.

**Anderson's Minorcas Sweep Hagerstown**

At the recent Hagerstown fair, the greatest poultry show held in the southeast, R. D. Anderson, Lynchburg, Va., won on his Black Minorcas, first and second cock; first, second and third hens; first and second cockerel; first and third pullets; first old pen and first young pen. Also specials for the best Minorca male and female in the show. This is some record to be proud of and if you are in the market for stock or eggs look up his advertisement in this issue and write him now.



# TURKEY & WATER FOWL DEPARTMENT

This department is conducted by Mrs. J. C. Shofner, Mulberry, Tenn., and any questions that you wish to ask will be answered through this department, if addressed to Mrs. Shofner. If a personal reply is wanted, enclose a stamped envelope.

## Encouragement for Show Record.

UNDoubtedly the first and most essential point to look after is selection of breeding stock to produce birds that will win. It is not a great honor to win on stock bought from another breeder. However, if we buy our breeding stock from a reliable breeder who has bred from prize winning stock in shows of some reputation for years, and then win in a good show with the parent stock and the young stock raised from them, there is a great victory won. This winning, even in one good show, may be the means of selling the balance of the flock at a good price and for several years following, besides having the satisfaction of knowing we have prize winners of our own. I have encouraged a great many amateurs among my customers throughout the thirty-seven States in the Union to whom I have sold Mammoth Bronze turkeys, to show their stock in shows, when there is good competition, and go along with their birds if it is possible. I never cared for a prize won where there was no competition.

My first experience in the show room, twenty odd years ago, was in Atlanta, Ga., where competition was keen between the stock from the Biltmore farm, North Carolina, Bellmont farm, Smyrna, Ga., and other noted breeders in a great show. I knew I had good turkeys from George Wolf, Seneca Falls, New York, stock, but I was very timid. However, I selected the best old and young pair I had. Having two baby girls, I could not go with my turkeys, but my husband went and promised if we won he would wire or write me at once. To my great surprise we won first on cock, first cockerel and first pullet and second hen, also received all kind of offers for my winning birds, but no offers were accepted. This gave me great encouragement and my birds were in two other shows that season, Alabama State Fair and Huntsville Poultry Show, each time winning a lion's share of the prizes. I became greatly encouraged to raise more turkeys each year following and it did not seem to be drudgery to look after them when I learned they were worthy of my time.

I could go on with a number of chapters telling of my ups and downs in the turkey business, but space forbids. But I do want to encourage all young breeders to build up a show record of their own. Though they may be timid at first and probably disappointed, they should try again and profit by the object lesson, if possible, in the show room.

After my baby girls got larger I at-

tended a great many shows with my turkeys and Barred Plymouth Rock chickens. The association with other breeders is great. Such shows as World's Fair, St. Louis; Greater Nashville Show, where there were 108 Bronze turkeys on exhibition; Atlanta, Ga., at the great International Poultry Show, where it was my pleasure to judge, and meet and mingle with many of my customers whom I had never known except through correspondence. I was also employed the same season to judge the turkey and waterfowl department at the Appalachian Exposition and met many of my customers and friends of correspondence there. The communion is very great and I hope a great many of our Bronze turkey breeders will join the Bronze Turkey Club and help swell the energy of this great enterprise to get better prizes and prices, for "when there is union there is strength." We have never had the encouragement shown us in the shows on turkeys we should have in order to induce young breeders to show. The prize money being small compared to some of the chicken prizes in organized clubs. Express rates are so much higher on turkeys, as they are heavier, more expensive to crate and handle. Consequently the prize money should be more on turkeys than chickens to encourage a large entry of our national bird, which the President's table on festival occasions would seem at a loss without. Possibly some amateur who would like to show their birds desires to know something about selecting, grooming

and crating for the shipment to the show.

In selecting we should have a Standard of Perfection to guide us as to plumage, weight, etc., giving all the disqualifying points, an illustration of a perfect bird, with description of same. A judge dislikes to disqualify a bird, but the rules in the standard by which he has to be governed must be observed, and if the judge is kind he will explain to you the cause of the disqualification, if you will go to him after awards are made. This, one should do, instead of raising a kick without knowing what you are kicking about.

There is not much "grooming" to do about a bronze turkey, only see that they are clean, feet and shanks washed and rubbed with a little vaseline, then wiped clean with a dry cloth. Turkeys are very shy about strangers handling them. They will not pose like chickens for good looks, and after

(Continued on page 117.)



## Champion White Wyandottes

Win in the show room and fill the egg basket. Stock for sale reasonable. Write for prices and Picture Folder. Whitedotte Poultry Yards, Frank Hamrick, Proprietor, Box B144, Shelby, N. C.



## MAMMOTH BRONZE TURKEYS

### FOR SALE

Do you want stock from the largest and finest in the South, from prize winners at Madison Square Garden, World's Fair, Nashville and many other great shows? Two flocks, unrelated, to select from. Also Barred Rocks, stock and eggs. Write at once to

MRS.  
J. C. SHOFNER  
Route 1  
Mulberry, Tenn.

## RINGLET BARRED ROCKS

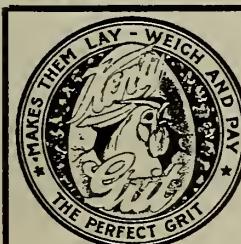
Winners at the Kentucky State Fair, 1916. Old and young stock for sale at reasonable prices and guaranteed satisfaction or money refunded. Address

CHARLES KOONS BOX A CHARLESTOWN, IND.

## S. C. WHITE ORPINGTONS

Exhibition and Utility Cockerels for sale, also Hens and Pullets. Write for our show record and give us your order. Satisfaction guaranteed.

RIDGE SPRING POULTRY FARM,  
RINEYVILLE. MRS. R. L. WILLMOTH, SUPT. KENTUCKY.



## A TREAT FOR CHICKENS

### KENTY GRIT

The hardest and sharpest grit on the market. We ask you to compare Kenty Grit with others and then decide for yourself. More eggs and greater profit if you feed Kenty Grit to your birds. Get it from your dealer or order direct.

Sample free. Address

KENTUCKY LITHOGRAPH STONE CO.,

Incorporated

710 W. Main St.

Dept. A

Louisville, Ky.

**Does the Poultry Business Pay?**

THE above question probably is asked and answered more times than any other connected with the raising of chickens. Wide differences of opinion are given until the man or woman who has a natural love for poultry and a desire to enter the field as a breeder stands in fear and trembling for fear of financial loss. This same feeling would probably be present if you were about to embark into any other line of business, or should be if we are to consider that statistics are worth anything. From these we learn that eighty-five per cent of the men entering the merchandise business fail absolutely and other lines of endeavor will show equally as large a percentage of failures as does merchandising, but you never hear this question asked about any other business except poultry. Surely somebody must be "knocking."

My experience does not cover many years (only about seven), but in that time I have never had reason to believe that the poultry business was a failure from any standpoint. I have seen the prices of poultry and poultry products advance every year until at present they are almost prohibitive to the average family. Surely such conditions do not suggest failure.

The poultry business is not unlike any other business. The trouble is, we expect too much. It is no get-rich-quick proposition. We expect to invest a few dollars and to give it a little of our "spare" time and draw a living out of it. Is there any other business you have in mind that will do that? If there is I would be glad for some of my friends to put me wise.

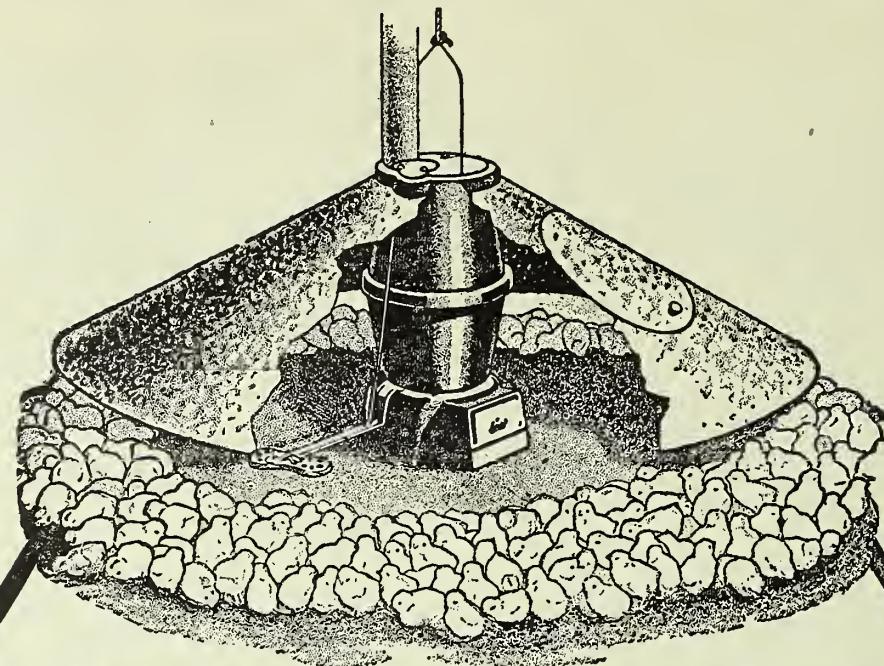
As we have just closed the year 1916 it will not be out of place for me to give those who are considering making a start, but who are afraid, something definite from which to figure. There is nothing sensational in the statement I am making and it is not made in the spirit of boastfulness, but simply to show that if the poultry business is conducted along the same conservative lines and the same principles put into use that make for success in other lines of business, there is no investment I know of of an equal amount that will show as good a margin of profit.

Since January 1, 1916 to date (December 12) I have produced and sold 5,000 baby chicks, 300 settings of (fifteen eggs each) hatching eggs, 353 breeding females, 32 males, 600 broilers, 290 cases market eggs and 873 dozen eggs for home consumption. Sales on baby chicks and breeding stock would have been greatly increased but capacity was limited. The above production is from an average for the year of 1,200 hens. What I have done is not beyond the average business man or woman.

Very truly yours,

Golden Rod Egg Farm.  
Hardinsburg, Ky.

Don't let the season slip by without getting your share of the business in the South. **START YOUR ADVERTISEMENT NOW.**



# STANDARD COLONY BROODER

→ PATENTED ←

We are so sure that this is the greatest, most practical coal-burning brooder ever made, that we **guarantee** it to do anything any other brooder will do, regardless of price, and do it better. We are even willing to have you write your own guarantee. You know what a good brooder ought to be and do. Just put that on paper and our dealer or ourselves will sign it and let you have the brooder on 30 days' trial. If it doesn't come up to **your own guarantee** you get your money back without argument.

## 100 to 1000 Chicks

The Standard Colony Brooder is self-feeding, self-regulating and everlasting. It burns 24 hours on one coaling, broods from 100 to 1000 chicks at a guaranteed cost of less than 6 cents a day. Successfully used by over 10,000 big and little breeders. The Standard Colony Brooder is so good that we know of at least five attempts that have been made to imitate it. Therefore, beware of imitations and make sure to look for our name.

### SPECIFICATIONS

Solid cast iron stove, 52 inch galvanized hover. Two double-disc thermostats, tandem hitched. Rocker furnace grates, self-cleaning and anti-clog. Check valve hung on knife edge bearings. Gas proof—fire proof—fool proof. Guaranteed to burn more than 24 hours in any temperature with one coaling. Capacity, up to 1000 chicks.

**Price \$16 00  
Only**

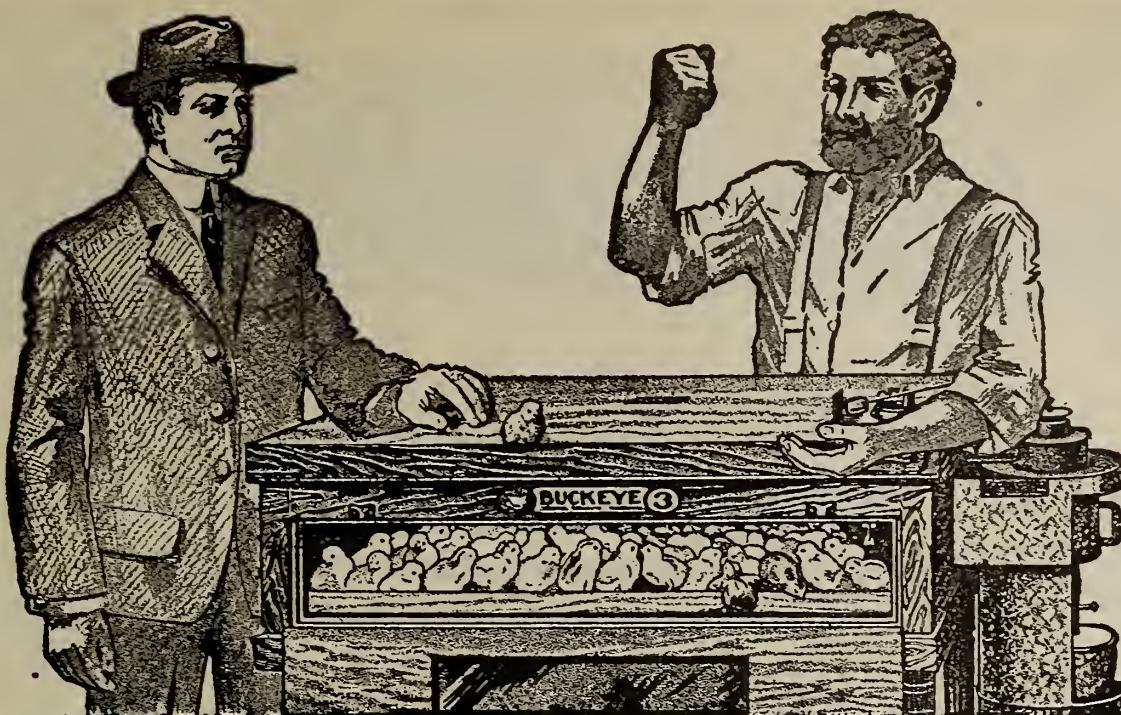
**A Little Higher in the  
West on Account of  
Freight**

**Book of Proof Free** Whether you raise chicks on a small or a large scale you owe it to yourself to investigate the Standard Brooder. We have the evidence to show its merits and we will be glad to send it to you. Ask your dealer for our catalog and book of proof, or write us direct for it.

**AGENTS WANTED** Some good territory still open. An attractive proposition for the right man or firm.

**The Buckeye Incubator Co.**  
568 Euclid Avenue

*Springfield, Ohio*



# BUCKEYE

## The Best Incubator Made

"What do I think of the Buckeye Incubator?  
I don't *think* about it, I *know*!"

"When a fellow has been through the mill in this chicken business as I have he should *know* some things instead of thinking about them. I fussed around with cheap machines of different kinds for two or three years and it almost busted me."

"I was about ready to quit, when I saw a Buckeye hatching in a dealer's store. When he started out to tell me what a wonderful incubator it was, I cut him short and told him what I wanted to know was where I got off if the machine didn't perform right."

"He came right back at me with this: 'Buy a Buckeye, use it 40 days and if it doesn't give you more and bigger, stronger chicks than any other incubator I will take it back.'

"I knew he was all right, so I took him up.

### All Buckeyes Now

"That was three years ago. And you see I have a bunch of machines now, and they are all Buckeyes. That incubator certainly did the business, and I don't think I have lost a hatchable egg in three years."

"You couldn't give me any other kind of incubator as a present. I am willing to pay more money for a Buckeye because I know that I save both money and trouble."

"And they're less work, too. All I need to do is to look after them twice a day—turn the eggs and keep the lamps going. It is all the same whether it is a bright spring day or blizzard weather in winter. No matter where the temperature goes I never worry about my Buckeyes."

"No, sir; I don't *think* anything about it! I *know* what the Buckeye will do for me, and if you expect to stay in the chicken business take a tip from me. Put your money in Buckeye Incubators and you can't lose."

Seven sizes, 60 to 600 eggs. A post card will bring you a catalog and the most convincing testimony you ever read. Address

***The Buckeye Incubator Company***

567 Euclid Avenue

Springfield, Ohio



# FARM AND GARDEN



Under this department we aim to give our readers the best possible news matter pertaining to the farm, garden and other agricultural interests in a condensed form each month. Poultry raisers are usually engaged in other forms of agriculture and we hope they will profit from this department each month. We will be glad to have our readers and subscribers give their experiences here each month.

#### Taking Honey from Hive.

**T**AKING surplus honey is not robbing bees, though that term is often applied to it. Where bees are properly cared for they collect more honey than they need and give it over to man without complaint or struggle when he takes it in the proper manner. If he cuts a bee tree or slits open a gum or box-hive and attempts to steal their supply of food, as well as the surplus, then the bees do object.

Surplus honey should be taken from the supers before cold weather to avoid chilling the bees, but on warm days, even late in the fall, if the bees are still working, honey may be taken where for any reason it has not been removed earlier.

Honey is produced in three forms, depending upon the beekeeper and the type of hive. Some work for section or comb honey, others merely cut out the comb honey in chunks, while still others use an extractor for throwing the honey out of the combs, after which the combs are returned to the bees for refilling. Section honey can be produced only where a movable comb hive is used and the sections full of honey may be taken from the hive when filled and capped. Chunk honey may be taken from bee trees, gums, box-hives or movable frame hives. The hive is simply opened and the surplus supply cut out in chunks and stored in cans or jars. Extracted honey, and that is the type of honey which is most suitable for immediate use on the table, is removed from the chunks by means of an extractor where movable comb hives are in use.

To remove surplus honey, select a warm day and work as rapidly as possible so as to avoid exposing the honey to robber bees. Also be careful to avoid spilling or smearing honey about the hive or ground, as it always encourages robbing, the most undesirable trait of bees. Above all, remember to remove only surplus honey and leave the brood chamber strictly alone.—L. Haseman, Missouri College of Agriculture.

#### The Care of the Cream.

The quality of creamery butter depends on the cleanliness and care given to the cream by the community where the cream is gathered, after all. A man who would not touch butter from the store, no matter how seemingly it was all right, would eagerly buy creamery butter at ten cents more on the pound that had been made from the cream in the selfsame community, with the comfortable assurance that "creamery butter is always right!"

As a matter of fact, it is not always all right, as many of us who at times must buy butter can testify. It is sometimes strong, just as country butter is not quite as sweet as it should be. Indeed, many times a woman will let the cream that is intended for the cream man set carelessly around, when if it were for her own churn there would be a different story.

A couple of farmers' wives were comparing notes about their work. They had done this and they had done that, that busy morning. Among other things, one of them, who is counted as a No. 1 housekeeper, told of "emptying the cream." "Everything about the cupboards were full," she explained,

"and it does take such a long time to get it all into the can and the things washed up!"

Well, the only saving feature about it is that the cream was not poured into the can while warm. But to let some half dozen or more dishes of cream set in the cupboard that hot weather instead of placing in the can as soon as cool and keeping at somewhere near the required temperature for anything like good results! It is downright carelessness, and then when the cream fails to test as it should, someone else is blamed.

Carelessness and all attending evils pay us back in our own coin. It is not until the average person finds that it is hitting his pocketbook that he particularly cares, and the sooner it is fully understood that in most cases it is not the fault of the cow, neither that of the creamery that the check is not what it should be, the sooner will the trouble be remedied.—Ex.

#### Average Cows Do Not Pay.

Estimates on the value of the average dairy cow's production in New York State, made by the College of Agriculture, give a yearly total of \$66.09. Costs of maintaining her are estimated at \$61.85, not including the cost of labor. The difference, amounting to only \$4.25 per cow, would give the man who cared for twenty cows a yearly wage of \$85, which is less than the lowest wage paid to ordinary farm labor.

Scrub cows are largely responsible, it is said, for this poor showing and they must be weeded out if dairy herds are to be profitable to the farmer. Herds may be improved by "grading up" with a purebred bull or by the purchase of purebred animals. Grade cows may be obtained that will give high yields, though their offspring are not always as valuable in the market as those from purebred animals.—Cornell University.

#### Beat Rabbits To It.

Rabbits have had an abundance to eat so far this season. But who knows what night the wind will swing into the north bringing with it a heavy fall of snow. In a snowstorm of a few hours, all the fresh green rabbit food may be covered up, forcing the hungry animals to hunt for anything which shows above the level of the white blanket of snow.

Mr. Farmer, it will pay to wrap those tender young fruit trees now when they do not show a tooth mark so they may be absolutely safe no matter what the weather may be. Wrap the trees with old sacking, protect them with tobacco stalks, tie them up with cornstalks, encircle them with chicken wire, fix them any old way so that hungry rabbits may not get at them. Sure, you've read this over so many times before, but be sure that you go out now and protect those trees that have cost you both valuable time and hard-earned money. Beat the rabbits to it.—Ex-

## WITTE HIGH-GRADE ENGINES

Kerosene, Gasoline, Gas, Distillate

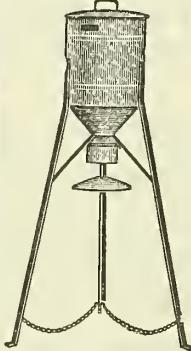
2 to 22 H-P.

For operating belted machinery, elevators, pumps, feed grinders, bone mills, cream separators, crushers, blowers, hoists, etc. — Stationary or Portable, also Saw-Rigs, complete. Largest exclusive engine factory in the world selling direct to the user. Saves \$25 to \$100—Immediate Shipment — Write for latest WITTE prices and catalog of engines. State size wanted, or what work you have.—ED. H. WITTE, PRES.

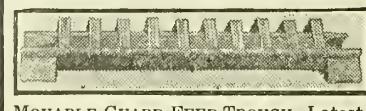
Witte Engine Works,  
3807 Oakland Avenue, Kansas City, Mo.  
3807 Empire Building, Pittsburgh, Pa.



## Poultry Supplies



AUTOMATIC GRAIN FEEDERS, save feed and labor; insures a small continuous supply of grain in the litter. Makes 'em work. Bushel size, with legs, \$3.00; half-bushel size, with legs, \$2.50. Bushel size, to hang up, \$2; peck size, to hang up, \$1.



MOVABLE GUARD FEED TROUGH. Latest out. Space guards any distance you want. 24 inches long. 35c each; 3, \$1.00.



Insures warm water without fire risk or fussing with lamp. Perfectly insulated entirely around water chamber—like a thermos bottle. Three gallon size, \$3.50; two gallon size, \$3.25. Lasts a lifetime.

#### Get Our Free Circulars

We make up box shipments to go by freight in which we can put a great assortment of small packages and articles to reach you safely and at very small expense to you.



Get our circulars and save money

Eureka Supply House, Box I-403 Aurora, Illinois

LITTLE GIANT A FOUNTAIN. Don't upset. Don't break. Lasts a lifetime. Latest and best for chicks or pigeons. 25c each, three for 70c; six for \$1.35; twelve for \$2.50.

**Ten Dairy Commandments.**

1. Treat cows gently and avoid excitement.
2. Be regular in time of milking.
3. Keep stables clean, well lighted and ventilated.
4. Weigh the milk of each cow at milking time.
5. Get your neighbor to share with you in owning a Babcock milk tester, and test the product of each cow.
6. Discard the animals which have failed at the end of the year to pay for their keep.
7. Breed your cows to a purebred, registered dairy bull from a family having large and profitable production of butterfat.
8. Raise well the heifer calves from cows, which, for one or more generations, have made large and profitable productions of milk and butterfat.
9. Breed heifers to drop their first calves at twenty-four to thirty months of age. Give cows six to eight weeks' rest between lactation periods.
10. Join a dairy cattle breeders' association. It will help you keep posted and in touch with the best and most modern ways of managing your dairy herd.—Ex.

**Market Corn on Four Legs.**

A progressive bank in one of the smaller cities in Kentucky is keeping in close touch with the farmers in the surrounding territory. The above heading is used on a circular which is being sent to its depositors and their neighbors.

Fortunately the bank does not merely preach this gospel of feeding grain to stock for it closes the four-page circular with the following:

"To Our Regular Customers or Any Responsible Farmer:

"We will loan money to buy cattle. We have prepared a special cattle note and invite a careful investigation of the plan. We know of no better way to lift a mortgage or build a bank account than to buy cattle and feed them on your own land."

That this bank is certain to grow both in its finances and in the hearts of the farmers is shown by its attitude toward its customers. In the same little yellow circular to the farmers, the bank says:

"The services of this bank are always at your command, and it is our desire that our customers and friends feel free to communicate with us frequently, either by phone or letter, that we may be in close touch and work hand in hand toward a mutually profitable and highly satisfactory end."—Ex.

**Alfalfa in Orchards.**

"The best looking orchards this fall are the mature trees among which alfalfa has been growing," says Field and Farm. "We have never yet fully tried out this system of orchard growing in Colorado, and we are satisfied that there is something in it. We have seen that a biennial stand of sweet clover has had a startling effect in nitrifying the soil of a grown orchard, and why not alfalfa? A great many people have been trying it in a different sort of way for many years, and the result has invariably been beneficial. Alfalfa is almost miraculous in the way it draws nitrogen from the air and deposits it in the soil, and green alfalfa plowed under just as it is ready for the second cutting, adds as much humus as would be provided by twenty tons of barnyard manure to the acre."

"Trees need nitrogen and humus as well as do other crops. Our fruit growers would all be richer if all our orchards had been planted on land that had been in alfalfa for from three to five years, and even better than had had the last crop of alfalfa plowed under while green. The results would show in yield, color and quality, and these again would bring higher net prices for the fruit and an increased bank account."

"In hot summers like that of the past season a good stand of alfalfa would have a great effect in improving conditions by cooling the soil and keeping it moist during the blistering spells of the torrid weather."—Ex.

# Get More Egg Money

Egg prices are still high. Make every layer do full duty now. Sell lots of eggs on the high market. A few extra eggs from each layer will greatly add to your profits. You can surely make your hens lay better by using

## Pratts Poultry Regulator

**Begin using it today** and see how quickly your hens fill the egg-basket. These extra eggs—the clear-profit kind—are the result of the improved condition of your flock. Your hens will be healthy, vigorous, active—will eat heartily and digest their food thoroughly—will lay because you have supplied the tonics, laxatives and other things they need at this season.

Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your money back if YOU are not satisfied"—the guarantee that has stood for nearly fifty years.

Write for FREE copy *Pratts Almanac*

**PRATT FOOD COMPANY**

Philadelphia      Chicago      Toronto



## S. C. BROWN LEGHORNS

I have some splendid birds to offer you in cocks, hens, cockerels and pullets at reasonable prices. I guarantee satisfaction with every sale or a refund of your money. Can furnish you pens mated for best results, either old or young. Egg orders booked for later delivery. Circular free. Address

**M. S. COPELAND,**

R. F. D. No. 1

Tennessee

**Egg-O-Hatch.**

Upon the hatching of eggs and the raising of chicks depends the success or failure of the poultry business. If you can hatch only fifty per cent of the eggs and then raise only fifty per cent of the chicks that come from the eggs, you will not be likely to have a startling success. Anything that will better the hatch and better the quality of the chicks that are hatched is certain to add to the profit of every person raising poultry.

Every fertile egg in the incubator undergoing incubation is breathing steadily every day during the twenty-one days. The chick in the egg does not breathe through lungs the same as after it is hatched but it breathes through an immense network of blood vessels thrown out from the chick to the inner membrane of the shell. The air comes in through the pores of the shell and the blood in the blood vessels of the inner membrane take up the oxygen from the air and give off carbonic acid gas. If the pores of the shell are partially closed, it prevents the chick from getting sufficient air, or rather oxygen, and this gradually weakens the chick, while at the same time the eggshell is becoming harder and tougher.

The margin between the strength of chick and strength of shell is small at the best and any chick has a sufficiently hard time to break out of the shell at hatching time. If the chick has been weakened below a certain point and the shell has been hardened or strengthened beyond a certain point, then the chick cannot get out and it appears as dead in the shell at hatching time.

The modern tendency of breeding thoroughbred stock very closely has resulted in chicks being somewhat weaker and the modern tendency of feeding lots of shell, bone, meat, etc., has made the eggshell harder than before. It is therefore becoming more and more of a problem to get the difference between the strength of chick and the strength of shell to a point where it is easy or even possible for the chick to get out of the shell.

Egg-O-Hatch, a new product recently put on the market by the Geo. H. Lee Company, of Omaha, Neb., is especially designed to strengthen the chick and weaken the shell. It is a powder which when mixed with water forms a liquid which is very rich in free oxygen gas. This when sprinkled on the eggs furnishes oxygen in liberal quantity for the growing chicks. This strengthens



# FREE!

Save Big Money on Poultry Fence! Get my big new Book Free! 150 Styles. Also Gates and Steel Posts. Direct from factory, freight prepaid.

SEND ME YOUR NAME, NOW!

Brown Poultry Fence outlasts chicken netting 5 times, yet costs no more. Heavy DOUBLE GALVANIZED Wire close spaced. No top or bottom boards needed. Get Free Book and Sample to test.

THE BROWN FENCE & WIRE CO.  
DEPT. 837      CLEVELAND, OHIO



## FARM FENCE

16½ CENTS A ROD for

a 26-inch high fence;

23½ c. a rod for 47-in.

81 styles Farm, Poultry and Lawn

Fences. Low prices Barbed Wire.

FACTORY TO USER DIRECT.

Sold on 30 days FREE TRIAL.

Write for free catalog now.

INTERLOCKING FENCE CO.

Box 126      MORTON, ILLS.



## RAT CURE TABLETS

KILLS 4 FOR 1¢      NO MIXING

DOGS CATS CHICKENS      READY TO FEED

WONT TOUCH      ASK YOUR SUPPLY DEALER

NO ODOR AFTER DEATH      MORRISITE MFG. CO. BLOOMFIELD, N. J.

the chicks. At the same time the liquid which soaks into the shell absorbs the carbonic acid gas which is given off, and it also has a further effect of rotting the animal matter of the eggshell. This makes the shell more brittle and porous so that at hatching there is a stronger chick and a weaker shell and it makes it easy for the chick to get out.

Not only this, but because of the chick being stronger, it is easier to raise.

The benefit of using Egg-O-Hatch is in receiving more chicks on account of more of them being able to get out of the shell and also on account of all of the chicks being stronger. It is not merely the few extra chicks that are stronger but all of the chicks are made stronger.

Egg-O-Hatch is advertised by the Geo. H. Lee Company in this paper.

# SOUTHWESTERN NOTES AND COMMENTS

By MRS. J. F. VERMILLION, Rusk, Texas.

THESE months certainly have a way of slipping by quickly. I hardly get one Industrious Hen letter written and mailed until it is time to write another, and with this summer weather it is hard to stay indoors long enough to write. The thermometer on my front gallery registers 80 degrees right now (December 4). The hens in the yards are just bursting their little throats singing and cackling. We have a large incubator that will hatch next Monday (December 11) and have several hens setting. It certainly seems more like May than December.

Texas and the Southwest is just swarming now with good poultry shows. But the only way we know it is from the premium lists received. I have not seen the awards of but one or two shows in all the poultry journals that have come to my desk this fall. It seems to me that this is nothing short of gross and unpardonable neglect on the part of show secretaries. The exhibitors and winners in the shows are entitled to that amount of advertising and the readers of the poultry papers look in vain for the awards of these shows. They should also be published in the nearby big city dailies. These big papers are on the lookout for just such material of interest.

Breeders in the Southwest should start their advertising in the February Industrious Hen. The Hen scratches all over the South and Southwest and will help you make your sales larger.

I notice in the poultry press from time to time some writer will speak out in meeting and demand the return of the score card system of judging in the big shows. This writer had hoped that the score card for the show of over four hundred birds was buried beyond recall. To my mind the comparison judging is the only real test, be the show big or little. Every poultry show, great or small, has many birds entered that stand no chance whatever of being placed, and why take up the judges time going over and scoring these birds. If the owner of such birds is present and desires information, it's the judges duty after his work of judging is completed to compare them with the winning birds in their class and point out the shortcomings of the inferior birds. The greatest drawback to the score card system is the extreme high or extreme low score most judges will give the birds. Very few judges will score two birds and give them equal advantage, or score the same bird twice alike, not that they discriminate intentionally, but it is simply too difficult a problem to determine the cuts for certain defects. In every show there are always two or three "best birds in each class" and the only real

test of superiority is to compare these birds section by section.

Poultry and farm papers are full to overflowing of advertisements of different makes of grain sprouters. An oats sprouter is an indispensable article on a poultry plant, either large or small. Sprouted oats is the most convenient and economical form of green feed that we can provide during the winter months. We find that our Reds relish the oats better when fed just as they are putting out the first tender green shoots. If permitted to grow until long blades are formed, they do not seem to care so much for it.

In looking over the November Industrious Hen I noticed an article on fitting birds for the show room, which contains very valuable information, but there is a statement in the heading of the article that I cannot believe the writer of the article intended to express just as he did. He says "show birds are made, rather than bred." Proper conditioning the birds for the show room is certainly most essential but it will not "make" a show bird by any means. True, we owe it to ourselves and to our birds to see that they are at their very best when they are exhibited. I recall some years ago at our big Fort Worth show hearing an exhibitor boast that he "just went out to the roosting place of his flock of Reds and pulled down a few and sent them on to the show." I looked him over and decided—yes, that would be just about the way he would proceed. Furthermore, a man or woman who had no more pride of ownership or ambition than was displayed in such a remark would not be very likely to own any birds that any amount of conditioning would fit for the show room. The real getting

ready for the show must begin years before the date of the show. Occasionally a fine specimen in any breed is produced from a chance mating, but the only kind that are worthy of the name are the ones that are line-bred and show their proud ancestry in every line and curve. No we cannot "make" a show bird by giving him three or six weeks conditioning.

The big show at Houston, Texas, was held the last week in November. I did not exhibit at nor attend the show, but had a report of the proceedings from our son who lives in Houston. Barred Rocks, White Leghorns and White Wyandottes were the largest classes. The Reds were one of the smallest classes in the show, only about a dozen single combs being exhibited. The Reds are almost invariably the largest class in all our Texas shows and I am at a loss to account for their absence at Houston, which is one of the largest shows of the Southwest. The specials were awarded as follows: Best solid colored pen White Wyandottes, J. W. Jenkins, Midlothian, Tex.; best particolored pen, Partridge Wyandotte Yards, Houston, Tex.; best cockerel, Barred Rocks, R. O. Murray, Lufkin, Tex.; best hen, White Orpington, C. S. Hardy, Sweetwater, Tex.; best cockerel, White Leghorn, Lee Zeitzer, Galveston, Tex.; best pullet, and best ten birds, White Plymouth Rocks, Roy M. White, Houston, Tex. I have had the pleasure of meeting Mr. White at several shows and seeing his beautiful White Rocks. I remember a cockerel he exhibited at Galveston in 1913 that was certainly a beauty.

We will give you a pen of purebred birds absolutely free. Let us tell you how you can select any variety you want.

## SINGLE COMB REDS

Trapnested 200-egg record. Type and color a specialty. Eggs guaranteed. Prices \$2.00, \$3.00 and \$5.00 per fifteen.

MRS. B. W. PEARCE,  
CENTER - - - TEXAS

## ROBERTSON'S POULTRY FARM MILLEDGEVILLE ROAD, MACON, GEORGIA

Breeders of S. C. White Leghorns and White Plymouth Rocks. Get our new catalogue after January 1 for the asking, giving prices on our eggs for hatching and day-old chicks, from both exhibition and utility matings.

## CALHOUN'S S. C. WHITE LEGHORNS

If your foundation stock is "Woodland Bred" you start right. A few yearling hens, cocks and cockerels yet for sale at right prices. Shipped on approval. This season's breeders best yet. Now booking orders for hatching eggs and chicks.

WOODLAND POULTRY FARM,

John R. Calhoun, Prop.,

Morristown, Tenn.

## HARMON'S S. C. WHITE LEGHORNS

We are prepared to furnish Leghorns as good as we ever produced at the same prices as last season. Taking time by the forelock, we placed our orders for feed early in the season in sufficient quantities to maintain the present flock and also the coming 1917 flock, which is yet unhatched. I publish no records that are not officially made—either egg laying or show records. Every bird on my farm having a record has been reared by me and not purchased elsewhere. There is a difference.

**PRICES**—Yard No. 1; containing my official over 200-egg hens, a limited number of eggs, \$5.00 per setting straight. Yards Nos. 2 and 3, special exhibition matings, \$5.00 per setting; three for \$10.00. Yards Nos. 4 and 5, \$3.00 per setting; three settings for \$8.00. Regular matings \$1.50 per setting; three for \$4.00; \$7.00 per hundred; 500 lots \$30.00; 1,000, \$50.00. We guarantee satisfaction and 90 per cent fertility. Stock a matter of correspondence. Order direct from this ad, or write me. You will have no regrets in the future if you purchase from us.

**B. R. HARMON,**

400½ South St.

Room No. 1, German American Bank,

Springfield, Missouri

## The Best System.

What is the best system of feeding is a question that is more often asked than any other that we know of, unless it is "which is the best breed." As with other questions of equal moment, this is one on which writers differ materially. I can only speak from my own experience and give my personal preference. I think that for the average laying flock, the best system that could be used, and that means for both winter and summer, is a combination of scratch feed made of up broken grains to be fed in deep litter, so as to induce the greatest amount of exercise possible, and this should be the evening feed just before they go to roost; in addition to which I would hopper feed, using a dry mash ration, well balanced, to be kept before them at all times. Professional breeders who raise thousands of birds annually practice this method, which has the



Ribbons won by B. R. Harmon's S. C. White Leghorns in the Missouri Egg Laying Contest. These ribbons were awarded to hens that laid over 200 eggs. Look up Mr. Harmon's advertisement in this issue.

merit of minimizing labor and increasing efficiency.

The use of milk as feed, I am glad to note, is coming into more general use. It has long been a recognized factor in successful work in the rearing of baby chicks, and now that it is being prepared in a dry state so that it can be shipped anywhere and at a cost to justify its use, we may look forward to greater results in the raising of baby chicks. The dry butter-milk product has a tonic effect, and the lactic acid a decided tendency to counteract any bowel trouble that might arise. Fed to chicks that have already developed this tendency, it shows a marked improvement almost

## Royal Blue Orpingtons—Black Orpingtons Scranton S. C. Reds—Speckled Sussex

Winners at Madison Square Garden, N. Y., Chicago Coliseum, Milwaukee, Greater Chicago, Indianapolis, this and former seasons. Our Fall Sale List tells about wonderful bargains in Reds and we have superb stock both young and old to sell in the other varieties—the kind that will help you win or breed winners. Birds with color, type, size and vigor. Write us today—it will pay you.

**RAU & FRY,  
HAWTHORNE POULTRY YARDS,**

INDIANAPOLIS,

INDIANA

### SWEEPSTAKES      S. C. WHITE LEGHORNS      QUEENS STRAIN

Charlotte, Dec., 1915, 68 S. C. White Leghorns in competition, 1st cock, 1st and 2d pullets, 1st and 3d hens, 2d pen. Sweepstakes cup, champion cock, all varieties competing. Sweepstakes cup, champion pullet, all varieties competing. Sweepstakes cup, Mediterranean display, all varieties competing. Sweepstakes cup, display all varieties. Statesville, a big show and strong competition, Jan., 1916, 1st cockerel, 1st and 2d hens, 1st and 2d pullet, 1st pen. Sweepstakes cup champion male, female, all varieties competing. Gold medal best cock, cockerel, hen and pullet, all varieties competing. Gold medal for the best Leghorn. Gold special best bird in the show. Augusta, Ga., Nov., 1916, 1st, 2d hens, 23 in class; 2d pullet, 21 in class; 2d pen, 7 in class. Stock for sale. Eggs for hatching after January 10. Write for particulars. A square deal always.

Myers Park, Charlotte, N. C.

immediately. The result of tests at the experiment stations where it has been tried bears out every claim that has been made for it and warrants its more general use throughout the country. I have tried it on several lots of chickens, and in every case have arrived at the same conclusion, i. e., that I would not be without it if I could get it at a reasonable price, and this is possible now under present process of manufacture. It will stand the test and I have no hesitancy in recommending it to our readers, who may not have the fresh product at their command.

### A Winter Course of Study.

Every local poultry association can greatly increase its efficiency by inaugurating a course of poultry study during the winter months. This plan is carried out each year by a number of associations and in addition to having a prearranged set of topics for study and discussion, other literary and amusement features are added so that the poultry bunch in the locality have a most enjoyable evening every week or two during the winter months. There are plenty of topics that can be made most interesting and instructive that will prove highly beneficial. The secretary of the American Poultry Association is ready at all times to lend his aid in making out programs.

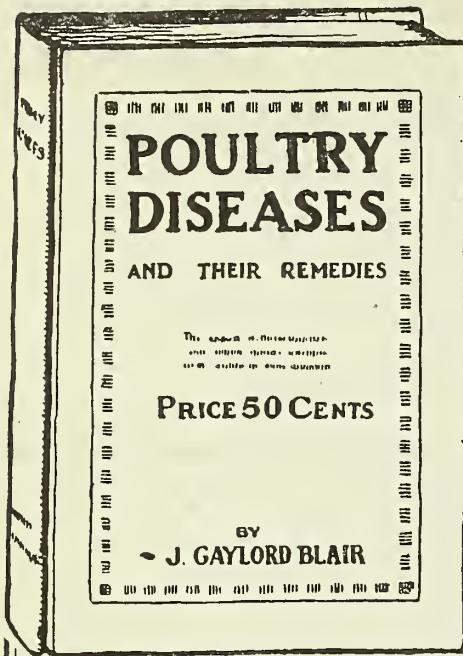
(Continued from page 111.)

a close examination of plumage, weight, etc., they must stand off to get typical carriage.

Crating is something that should be done with care. Crates should be made of light weight but strong lumber, canvassed inside with brown domestic. Crate for one should be about twelve inches wide, twenty-two to twenty-four inches high and three and one-half feet long. The bird should have enough room in which to stand or sit down comfortably, but not to turn around, as this breaks feathers and detracts in the show room. There

should be slats on outside of canvas, so if it should be cut or torn the bird could not escape. This gives us only single express rates. The crate should be provided with a tin cup tacked in end where head of bird is, for drinking. Bottom of coop should have two inches of straw or chaff to prevent plumage and feet from becoming soiled in transit, also food of some kind should be provided in coop. They will find it even in litter. Valuation of bird should be on shipping tag.

This would have been a great help to me when I made my debut in the show business, and I hope it will assist others in making their first exhibit.



# Big Free 1917 Offer To Our Readers and Subscribers

We want to introduce THE INDUSTRIOS HEN into 10,000 new homes in the South in the next 60 days. We believe you are one of our best friends and boosters. Can we count on your co-operation in this campaign? We receive hundreds of letters from our subscribers and readers, telling us how the HEN helps them and how they enjoy reading it each month. If you like THE INDUSTRIOS HEN and want to help us boost the poultry industry in the South, will you help us?

## SEND TWELVE 10-CENT SUBSCRIPTIONS

Go out among your friends and neighbors and secure twelve 10-cent subscriptions to THE INDUSTRIOS HEN and send us \$1.20 and we will give you a year's subscription free. If your subscription is paid up,

we will extend your time one year, and also give you a copy of "Poultry Diseases and Their Remedies", which is a big 100-page poultry book, telling you how to cure and treat every known poultry disease. This book alone will be worth many dollars to you.

## GREATEST OFFER EVER MADE

This is the most liberal offer ever made and we want everyone of our readers and subscribers to take advantage of it. The regular subscription price of THE INDUSTRIOS HEN is 50 cents PER YEAR, but we will allow you to give it to your friends and neighbors for the next 60 days, at three months for 10 cents. They get three big numbers for 10 cents. YOU GET FOR YOUR TROUBLE, one year's subscription to the HEN and a Big Valuable 50-cent Poultry Book—ALL FREE. Don't you think this a liberal offer? Get busy now and send in your dozen trial subscriptions and let us send you the Big Poultry Book and THE INDUSTRIOS HEN one year. Address,

**THE INDUSTRIOS HEN,**

609 REPUBLIC BUILDING  
LOUISVILLE, KENTUCKY

This offer expires March 1, 1917



### Poultry Club Exhibit at State Poultry Show.

The following is a report of girls' and boys' poultry club exhibit at State poultry show, Richmond, Kentucky, November 9, 10, 11. Number of members competing 10, mostly of Richmond club; number of chickens exhibited 89; value of cash prizes \$34.50; value of other prizes \$12.00; value of three silver cups \$13.00; prizes, money in open class \$45.00, estimated; total \$104.50.

One \$5.00 cup to go to poultry club in Madison county raising greatest number of chickens. The other to club sending in best set of records of work done. No one club can win both cups. Cups to be competed for annually. This scheme has been worked in other counties.

A \$50.00 silver cup will be awarded by the Extension Department of Kentucky University to the boy or girl doing the best poultry club work in the State each year.

Several members sold stock and took orders for hatching eggs. One club member, Samuel Deatherage, sold a White Plymouth Rock cock bird for \$25.00. His score was 94½; unusually high for an early show.

Winnings made by club members in open competition:

White Plymouth Rocks—Sam Deatherage, Richmond; cocks, 1st, 2nd, 3rd; hen 2nd, 3rd; chicks 4th; pullet 2nd. \$2.50 Madison county special for best display.

S. C. Black Minorcas—Geo. B. DeJarnett, Richmond; cocks 1st; hen 4th; chicks 1st, 2nd, 3rd, 4th; pullet 1st, 2nd, 3rd; pen 1st. \$2.50 Madison county special for best display.

Silver Campines—Russell Moores, Union City, Ky.; hen 1st, 2nd; chicks 1st, 2nd; pullet 1st, 2nd, 3rd, 4th; pen 1st. \$2.50 special for best display.

Golden Campines—Russell Moores, Union City, Ky.; cock 1st; hen 1st, 4th; chicks 1st, 2nd; pullet 1st, 2nd, 3rd, 4th; pen 1st.

Black Orpingtons—Galen White; hen 1st; pullet 1st.

A fine string of Columbia Wyandottes was a feature of the girls' and boys' poultry club show.

The Madison county Poultry Association and Richmond Board of Commerce, as well as local breeders, have expressed a desire to "back up" poultry club work during 1917.

A number of new boys and girls have made application to become club members the coming year.

### Treating Your Sick Birds.

What are you doing with your sick birds? Some think it is a saving of time and money to chop off their heads. Perhaps it is in the main; but would it not be profitable to you to rig up a hospital in one of your pens and treat some of the cases of disease that appear in your flock from time to time? Even if the bird is nothing more than a cull, it appears to me that it would be worth some-

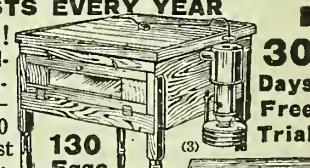
thing to you to attempt a cure, as you would then, in a practical way, learn something about the treatment and character of different diseases, the different symptoms, etc.; and you might also, by way of experiment, hit upon some remedy not now known, which, when marketed, would make you more money than the income from your entire plant.—Rhode Island Red Journal.

Take advantage of our special classified advertising offer on page 98. It will sell your surplus stock and eggs.

**Both Machines \$ Freight Paid Only 10**

**WINNERS IN BIG HATCHING CONTESTS EVERY YEAR**

- Think of it!
- These two UN-BEATABLE Wisconsin Machines—both for only \$10—freight paid east
- of Rockies. Guaranteed 10 years and sold on 30 days trial



130 Eggs  
130 Chicks

**MONEY BACK IF NOT SATISFIED**

Wisconsins are made of genuine California Redwood. Incubators have double walls, air space between, double glass doors, copper tanks, self-regulating. Shipped complete with thermometers, egg tester, lamps, etc., ready to run. Biggest incubator bargain of the year. Send for our new 1917 catalog fully describing this outfit. A postal brings it by return mail.

**180-Egg Incubator and Brooder both \$12.75**

**WISCONSIN INCUBATOR COMPANY**

**Box 56, Racine, Wis.**

**The Zenoleum Vaporizer.**

When you go into the henhouse these chilly mornings and notice the offensive smell as you open the door, you may be sure there is something not just right. A smell that is offensive to the human nostrils is sure to be a breeder of disease. The chicken house is the breeder of lice and mites—the main cause of colds and roup.

Every cubic inch of space in the henhouse is a colony of millions of germs—all of them vitally dangerous to the health and life of the birds.

If you have any fowl with such disorders as cold, roup, etc., listen to what Helen Dow Whittaker, the Washington State Agricultural College poultry specialist, says about the vaporizer. She says: "There has recently been put on the market a zenoleum vaporizer which I find to be excellent for the treatment of colds and roup where a number of fowls must be treated at once."

Prof. Lippincott, of the Kansas Agricultural College, says: "The principle of the vaporizer is a good one, and effective in checking roup."

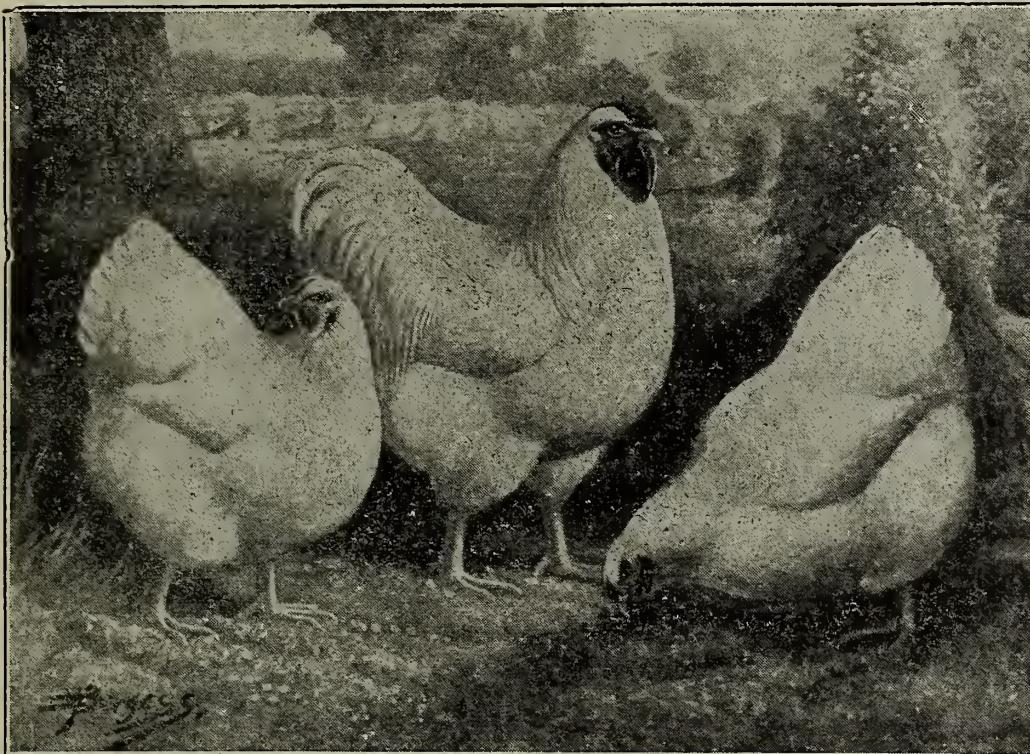
The Zenoleum vaporizer is in use on

tention of our readers to a substitute for green food in tablet form, manufactured by the Succulenta Company, of Newark, N. J., whose product has been successfully on the market since 1912.

These tablets contain the active ingredients of green food in concentrated form and are fed at the rate of one tablet dissolved to each quart of drinking water for fowl.

All green foods are largely composed of water. Thus, when sprouting oats in trays and without the use of soil to supply other plant food, the oat sprouts are about 90 per cent water and 10 per cent dry substance. The active ingredients are supplied, therefore, by the 10 per cent dry substance derived from the oat grains and carried into the sprouts by the 90 per cent of water.

The claims of the Succulenta Company, therefore, do not seem exaggerated, and, as "Succulenta" tablets are sold on "money back" guarantee, it would seem to us that our readers might well profit by giving these "Succulenta" tablets a thorough try-out. The advertisement of the Succulenta Company, showing prices, etc., can be found in our columns.

**WHITE WYANDOTTES**

**First cockerel, first hen and first pullet at Indianapolis Poultry Show, 1914.  
Bred and owned by Chas. V. Keeler, Winamac, Ind.**

such big poultry farms as Pittsfield farms (raising a million and a half chicks a year), Rancocas farm, Curtis Niagara farm, Owen farm and hundreds of others.

U. R. Fishel, the world-famed breeder, says: "I have found the Zenoleum vaporizer everything you claim for it, and a splendid preventive and cure for colds in fowl. I assure you the vaporizer will save a lot of work for many poultrymen."

The operation of the Zenoleum vaporizer is very simple and besides being an effective cure for colds, is an excellent means of thoroughly disinfecting the coops and henhouses, thus insuring the greatest amount of health among the poultry. You need one right now to keep disease, lice and mites away from your birds. It means heavier, healthier market birds and more eggs. See advertisement in this issue.

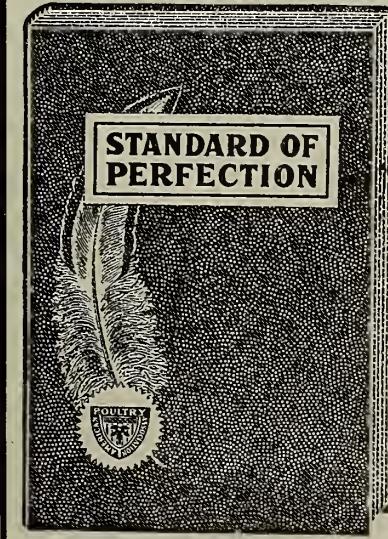
**Green Food.**

It is admitted that all birds require green food, especially the layers in wintertime and the growing chicks in early spring.

Oat sprouts are the best form of succulence feed. The present high price of oats and the large amount of labor involved sprouting the same, make it advisable to cast about for some other equally good, wholesome and harmless but cheaper and easier handled form of green food.

In this connection we wish to call at-

Do not overlook our classified columns as business getters if you have stock or eggs to sell.



**THE INDUSTRIOUS HEN,  
REPUBLIC BLDG.,**

Owensboro, Ky.,  
October 7, 1916.

**The Industrious Hen,  
Louisville, Ky.**

Dear Sirs: I received one order today for stock amounting to \$28.00. THE INDUSTRIOUS HEN certainly gets results.

**MRS. TOM H. HAYDEN.**

\* \* \*

**Magnolia, Ky.,  
November 25, 1916.**

**The Industrious Hen,  
Louisville, Ky.**

Gentlemen: Enclosed find check for November advertisement. I shipped a pen of White Leghorns, containing ten hens and a cockerel, to Georgia last week through THE INDUSTRIOUS HEN. Customer well pleased. Am now getting lots of inquiries for eggs and baby chicks. Have sold all of the Minorcas.

**J. R. SKAGGS.**

**KILL LICE NO HANDLING FOWLS.**

R. T. Barr, Box 42, Quincy, Ill., is mailing Free an illustrated circular showing how to kill lice in a few hours. If interested in poultry for profit, write today for This Big 12 page, Money-Saving Folder.

Read the classified advertising offer on page 98. It will save you money.

**The Cypher's Poultry Book**

For a better start and bigger poultry profits this year, send for this new, big, free **Poultry Book**. It is full of helpful, proven facts. Also describes and illustrates Cyphers-Built Incubators, Hovers, Supplies, etc. Don't delay—write now.

**Cyphers Incubator Co., Buffalo, N.Y.**  
**Dept. 13 Chicago Dallas**  
**Boston Kansas City Oakland, Cal.**

**THE NEW REVISED AND ENLARGED****Standard of Perfection**

368 pages; 6x8 inches in size; 112 full-page illustrations; cloth bound.

The one great book that every poultry raiser needs. It will teach you to know every Standard requirement of all standard-bred fowl—Chickens, Turkeys, Ducks and Geese.

**PRICE \$2.00 PER COPY, POSTPAID**

Gives weight, color, markings and shape, all disqualifications. With 15 pages of glossary, describing and illustrating many technical terms used by poultry breeders. Buy a copy and know the standard requirements for all standard-bred fowl. Send us your remittance today. Address:

**THE INDUSTRIOUS HEN,  
LOUISVILLE, KY.**

**BARRED ROCKS****S. C. REDS****S. C. BLACK MINORCAS****Bred by Joe J. Battle Stock Farms for Beauty and Utility, Vigor and Vitality**

Our yards contain winners at Birmingham, Valdosta, Madison Square Garden, Atlanta, Macon and other shows. Choice cockerels at \$3.00 and up. Hatching eggs \$2.00 to \$10.00 per setting. Also high class pigeons for sale. Address

**HARLEY L. WILLIAMS, Mgr., Poultry and Pigeon Dept.****Box H****Moultrie, Georgia****The Ward Suit Against American Express Co.**

In the September, 1916, issue of the *Industrious Hen*, page 36, we published an article by Jno. W. Ward, Jr., secretary-treasurer of the American Cornish Club, in regard to his suit against the American Express Company, and the decision handed down in court for the loss of eight of Mr. Ward's birds while being shipped from Pennington, N. J., to the Allentown fair, Allentown, N. J., on September 21, 1914.

The court would only allow Mr. Ward \$5.00 each for the eight Cornish birds, although they were valued by him at \$816.00. The reason why Mr. Ward could not realize the full amount asked by him was because he did not place the proper value on the birds at the time he placed the shipment in the hands of the express company. Under these circumstances the American Express Company could not be held responsible for the loss of these birds to the extent of the value asked by Mr. Ward.

Breeders in shipping valuable show or breeding birds should be careful that the proper valuation is placed upon them and received by the express agent. In this case you will be able to recover full value should the birds be killed in shipment; but, of course, where higher valuation is placed upon shipments the rates will be increased. In other words, you have to pay the express companies to insure you against loss.

**The Cost of Wire Fence.**

Much has been said and written about the cost of wire fence. But, after all, cost depends just as much upon the number of years of service a fence gives as it does upon the original cost of the fence. Far-sighted farmers figure that if a fence costs 30 cents per rod and lasts fifteen years, the cost is two cents per rod per year. If the fence costs 28 cents per rod and lasts ten years, the cost is almost three cents per rod per year. By spending only two cents per rod extra at the start, it would mean in the above case that you would get five years more service.

This is not an argument for high prices. On the contrary, it is intended to urge you to buy more carefully this year than ever, so as to get the benefit of every possible saving. We suggest that you study values more carefully—get the various fencing catalogs and decide which fencing to purchase, only after you have given the matter your earnest consideration.

One catalog you will of course want to have is that issued by The Brown Fence & Wire Co., of Cleveland, Ohio. It illustrates and describes over 150 styles and sizes of double galvanized woven wire fence from 13 cents per rod up, freight prepaid. It also shows a complete line of lawn fences, lawn gates, field gates, steel posts, barb wire, etc. A post card request addressed to Jim Brown, president, The Brown Fence & Wire Co., Dept. 37, Cleveland, Ohio, will bring this beautiful 80-page book by return mail. We suggest that you write at once while the present low prices are in effect.

***Postage Paid Both Ways*****Anywhere in the U. S. A.****The ORIGINAL  
PARCEL POST  
LAUNDRY  
LOUISVILLE, KY.****30 Years  
in Business****Prices  
Reasonable****Superior Sanitary Laundering**

We pay the postage both ways on all bundles 50c. or over. Work guaranteed first-class. Prompt deliveries in sanitary packages. Will credit you upon reference. Write for information. Better still, send a trial bundle now.

**Main Office: 628 W. Jefferson Street, Louisville, Ky.****S. C. WHITE ORPINGTONS**

Won 1st and 4th pullet, 2d, 4th and 6th cockerel and 1st pen, grand champion hen, all breeds competing, also grand champion pullet, 1915, Tri-State Fair, Memphis, Tenn. Many extra fine cockerels now at half what they will cost when breeding season starts. Hurry before too late.

**R. P. DORRIS.****PARIS, TENNESSEE****S. C. WHITE AND BROWN LEGHORNS**

I have some extra nice cockerels to sell at \$2, \$3 and \$4 each in each variety and guarantee them to please you. I won at the Bowling Green Show 1st pen, 1st and 2d cockerel, 1st and 2d pullet and 1st and 3d hen in Browns. 1st and 2d cockerel, 1st pullet and 2d pen on Whites. Write me your wants

**POMONA POULTRY FARM, EMMETT McGINNIS, Prop..****Bowling Green, Ky.****TYPEWRITERS FOR POULTRY MEN**

A good typewritten letter is half of the battle in landing orders after you have received the inquiry. Let me tell you about the Oliver Typewriter.

**Joseph P. Yotz, Route 1, Shawnee, Kans.****GOOD FARM LANDS \$20.00 PER ACRE**

Poultrying, trucking, stock raising, general farming. Wonderful opportunities for homeseekers. Free booklet tells more.

**W. Johnson, Pineora, Georgia**

Eggs from the following breeds, \$1.50 setting: Black Cochin Bantams, S. C. White Leghorns, Partridge Wyandottes, R. C. R. I. Reds, Barred Plymouth Rocks, Black Orpingtons and Partridge Plymouth Rocks.

**Union Poultry Yards, Algood, Tenn.****S. C. Rhode Island Reds****100 Cockerels.....\$2, \$3, and \$5 each****100 Pullets.....\$2, \$3 and \$5 each**

Sired by 1st and 2d prize Tri-State Fair winners. You need the blood. I need the room.

**GUY W. MOORE**  
**1997 Central Avenue, Memphis, Tenn.**

**30 Best Breeds Poultry**

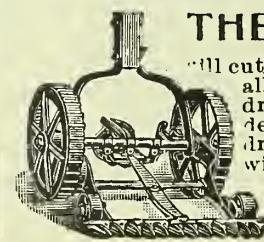
Stock and Eggs. Low price. Big new illustrated circular Free. See it.

**John E. Heatwole, Harrisonburg, Va.****ESTABLISHED 1912****Don't Feed Green Food!****Succulenta Tablets**

They are better, cheaper and more relished by all fowl. Simply dissolve one tablet in one quart drinking water for fowl. A full egg basket assured.

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|--|--------------------|
| Can of 100 large tablets by mail, \$0.50 | <b>YOUR MONEY</b>  |
| " " 250 " " " 1.00                       | <b>BACK IF NOT</b> |
| " " 500 " " " 1.75                       | <b>SATISFIED.</b>  |
| " " 1000 " " " 3.00                      |                    |

Write for particulars, giving your dealer's name, to the **SUCCULENTA CO., P. O. Box 405-25 Newark, N.J.**



Will cut tall and short grass, do all trimming along walks, drives and fences. If your dealers haven't them, drop us a line and we will send circulars and prices.

**Clipper Lawn Mower Co.  
5th St., Dixon, Ill.**

(Pat. Sept. 1, 1914.)

You Need This Band for Your Birds Just as Much as You Need Feed for them. You need them either to tell their age, or to keep your records right if you are trapnesting. The Bourne big-number bands are recommended for this as you do not have to catch the bird in order to read the number. Black numbers from 1 to 800 on white background. Numbers from 1 to 300 on red, yellow, cerise, green, pink, blue backgrounds. Sizes for Mediterraneans, Americans and Asiatics, also pigeons. Send for free sample and catalogue. We can furnish bands with the year "1915" and "1916" on them in order to tell the age of the bird. Send for sample and price list now.

BOURNE MANUFACTURING CO.,  
253 Howard Street, Melrose, Mass.



## Big Profits and Pleasure in Raising Fine Poultry

### WE START YOU FREE

During the past year, hundreds of our friends have taken advantage of our splendid and liberal offers and have secured pure bred poultry and eggs absolutely free by spending a few hours of their spare time among their friends and neighbors taking subscriptions to the INDUSTRIOUS HEN. The work has been easy for them as they find it easy to get their friends to subscribe for the INDUSTRIOUS HEN, and many will consider it a favor, as they want to read a good southern paper. Read what these people have done. You can get the same free start and build up a paying and profitable business. Don't delay—but start now.

### SOME OF OUR PLEASED PATRONS

Russell Springs, Ky., February 6, 1916.

Louisville, Ky.

BLAIR YOUNG PUBLISHING CO.,

Gentlemen: I received as my premium one pair of Anconas, for making up a list of 12 yearly subscriptions, yesterday. Am well pleased with them. Wishing the Industrious Hen much success, I remain,

Yours truly,

W. C. COMBEST.

Ensley, Ala., January 24, 1916.

Louisville, Ky.

THE INDUSTRIOUS HEN.

Dear Sirs: Am dropping you a few lines in regard to the pair of S. C. Black Minorcas received last week from Harley L. Williams, of Moultrie, Ga. They arrived O. K. Must say I am very much pleased with them and also to say I enjoy the Industrious Hen. I am,

2300 Pike Avenue.

O. A. FINLEY.

Etnowah, Tenn., Jan. 15, 1916.

Louisville, Ky.

INDUSTRIOUS HEN,

Dear Sirs: Received the pair of White Orpingtons from Mrs. Kenney, Wednesday night, the 12th, and am highly pleased with same. Thanking you very much for securing these birds, I beg to remain,

Yours very truly,

BEN H. McGHEE.

Roanoke, Va., Nov. 20, 1915.

Louisville, Ky.

THE INDUSTRIOUS HEN,

Gentlemen: I received yesterday from the Catalpas Poultry Yards, Dry Ridge, Ky., the pair of Barred Rocks which you so kindly gave me for soliciting subscriptions for you. The birds are even finer than I expected to get, which goes without saying that I am more than pleased with them. I am not much of a judge of chickens, having just started to raise a few, but as far as I know, I think the pullet bred line that were sent me will give entire satisfaction. Thanking you and Mr. Steers for the favor and general promptness from both of you. I am sure that the birds sent are of the finest stock.

Very truly yours,

H. E. MURRAY.

Winchester, Tenn., R. No. 6, Oct. 29, 1915.

Louisville, Ky.

THE INDUSTRIOUS HEN,

Dear Sirs: The pair of S. C. Rhode Island Reds reached me on the 19th all O. K. Am well pleased with them. Thanking you very much for securing such a good pair of birds, I am,

Yours truly,

MRS. C. D. GRAY.

St. Elmo, Tenn., Nov. 2, 1915.

Louisville, Ky.

THE INDUSTRIOUS HEN.

Dear Sirs: I thank you for the Ancona cockerel received on last Friday, and wish to say that he is very satisfactory.

Sincerely,

JNO. HARTLEY.

### FREE EGGS!

### FREE BIRDS!

We will give you a pair, trio, pen or eggs for hatching, absolutely free. The stock to be selected by us from any breeder's yards who advertises in the columns of the INDUSTRIOUS HEN. You have choice of any variety. We want you to get your neighbors to subscribe for the INDUSTRIOUS HEN. Show them a copy of the paper and they will gladly subscribe and will thank you for suggesting it to them.

**OFFER—Eight yearly subscriptions—One Setting of eggs (15). Twelve yearly subscriptions—One Male and Female (pair). Twenty yearly subscriptions—One Male and Two Females (trio). Thirty yearly subscriptions—One Male and Four Females (pen).**

WRITE US FOR SAMPLE COPIES AND PARTICULARS RIGHT NOW AND BE THE FIRST IN YOUR NEIGHBORHOOD TO GET SOME PURE BRED BIRDS. The work is easy and you can get into a paying and profitable business and grow year after year.

## The Industrious Hen

912-913 REPUBLIC BLDG. LOUISVILLE, KY.



Just say you saw it in THE INDUSTRIOUS HEN.



### POULTRY BANDS

**SURE CLINCH**  
23  
**ADJUSTABLE**  
3  
**DOUBLE END**  
55  
**CLINCH**

12 Varieties. Aluminum, with raised figures, price, 12, 15c, 25, 25c; 50, 35c; 100, 60c; 1,000, 4.25. Celluloid Bands in 8 different colors, with aluminumback, large black figures, price, 12, 30c; 25, 50c; 50, 90c; 100, 1.50. Send for FREE catalogue.

The National Poultry Band Co.,  
Newport, Ky.

### CRAGUN'S BUFF PLYMOUTH ROCKS AND GOLDEN BUFF ORPINGTONS

Winners. Cockerels and pullets for sale. Eggs for hatching. Won 13 ribbons State Fair, 1916.

JOHN A. CRAGUN, Kingman, Kansas



Eggs and Baby Chicks from heavy layers. Satisfaction guaranteed Mating list free N. V. FOGG Box 4250 Mt. Sterling, Ky.

### Ferris White Leghorns

Great layers. Pullets, hens, breeding males; eggs for hatching; day old chicks from hens laying 200 to 264 eggs. Prices low, quality guaranteed. Free catalog and price list explains all. Write for it.

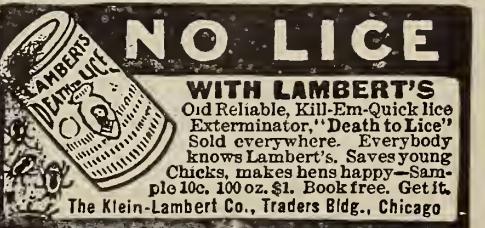
GEO. B. FERRIS, 922 Union, Grand Rapids, Mich.

### How To Get Winter Eggs



It's easy enough to get winter eggs when you know how to properly feed and care for your hens. Our Free Book, "Dollars and Sense in the Poultry Business," shows you how to get this valuable information, and how to obtain a complete poultry education, covering every phase of the business. Write today for a free copy.

AMERICAN SCHOOL OF POULTRY HUSBANDRY, Box 60, Leavenworth, Kan.



# PRICES CUT ONE-HALF LOMBARDY HEIGHTS POULTRY FARM

Breeders, Exhibitors and Importers of Prize Winners of the Highest Type of  
**S. C. White Leghorns, S. C. Buff Leghorns, Blue Andalusians, White Plymouth Rocks,  
Buff Plymouth Rocks, Partridge Plymouth Rocks, Columbian Plymouth Rocks,  
Silver Penciled Plymouth Rocks, Barred Plymouth Rocks, Black Orpingtons,  
Blue Orpingtons, Silver Spangled Hamburgs, Dark Cornish,  
Lakenvelders, Light Brahmans, Wild Mallard Ducks,  
White Muscovy Ducks.**

We are making very low prices on trios and pens of all varieties. Some extra fine show birds with from three to ten firsts to their credit at prices others ask for utility stock. Cocks and cockerels at prices to suit all. Must make quick house room for our young stock and offer the above pens and trios at less than really one-half their regular price. All stock guaranteed to please or money refunded. Send us your order direct from this ad, telling us just what you want, and get first choice. Or write for our large free catalog. We can please you. Address,

**LOMBARDY HEIGHTS POULTRY FARM  
JNO. O. REID, PROP., STANFORD, KENTUCKY**

## ANDERSON'S MINORCAS SWEEP HAGERSTOWN

Winning first and second cocks; first, second and third hens; first and second cockerels; first and third pullets; first old pen, and first young pen. Special for best Minoreca Male and special for best Minoreca female in show. Some record. A few cockerels left. Write quick.

**R. H. ANDERSON,**

**LYNCHBURG,**

**VIRGINIA**

### **S. C. WHITE LEGHORNS BUFF PLYMOUTH ROCKS**

Eggs \$1.50 per setting, Chicks 15 cts. each. Eggs \$1.50 per setting, Chicks 20 cts. each.

For Sale Stock, Eggs and Day Old Chicks

PINEY HILL POULTRY YARDS, Jno. G. Fletcher, Prop., Member A. P. A.  
NORTH CHATTANOOGA, TENNESSEE

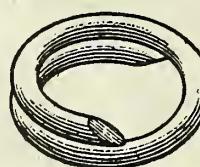


### **BLUE GRASS S. C. WHITE LEGHORNS**

Winners at Madison Square Garden, Central Palace, Boston, Allentown, Memphis, Chattanooga, Louisville, Lexington and other large shows. I have some grand cockerels and pullets with splendid type, color, comb, etc., at reasonable prices that will please you. Will also sell a few of my last year's winning birds. Let me quote you prices. Birds sent on approval and satisfaction guaranteed or no sale. Am now booking orders for eggs for December and January delivery from these great winners. SPECIAL PRICES ON STOCK DURING NEXT 30 DAYS.

### **BLUE GRASS WHITE LEGHORN FARM,**

W. BARROW, Pres. ED. ODER, Mgr. E. B. WREN, Sec. & Treas.  
LEXINGTON, KENTUCKY.



**SPIRALETS: Colored Leg Bands. Millions in Use.** Blue, red, yellow, green, pink, amber, purple, black, white. 25, 25c; 50, 45c; 100, 70c; 250, \$1.50. Please state breed when ordering.

M. BAYERDORFFER, Box 59 Huguenot Park, N. Y.

### **EGGS**

#### **Prize Winning Strain Barred Rocks**

At \$1.00. \$1.50, \$2.00 and \$3.00 for 15. Stock and fertility guaranteed. Write me your wants.

J. H. HERRON, Nebo, Kentucky

# Secretary's Entry Book



A very compact book, size 8½ x 8½ inches, giving ample space for making entries without crowding. Printed on best quality paper and handsomely bound. Our simple labor-saving system of special indexing is a feature that adds much to the book and affords a great saving of time in making entries. 100 Leaves \$2.00:



**THE INDUSTRIOUS HEN, - - - Louisville, Ky.**